



## **Rondout Creek Water Quality Assessment**

City of Kingston

December 2014



**Rondout Creek  
Water Quality Assessment**

Prepared for:  
City of Kingston

Prepared by:  
Malcolm Pirnie, Inc.  
855 Route 146  
Suite 210  
Clifton Park  
New York 12065  
Tel 518 250 7300  
Fax 518 250 7301

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## **Executive Summary**

The City of Kingston (City) retained Malcolm Pirnie, Inc., the Water Division of ARCADIS (ARCADIS), to assist with the development and implementation of its Long Term Control Plan (LTCP) to comply with the United States Environmental Protection Agency (US EPA) Combined Sewer Overflow (CSO) Control Policy. The City has four permitted CSO discharges to the Rondout Creek. CSOs are point sources subject to State Pollution Discharge Elimination System (SPDES) permit requirements, including both technology-based and water quality-based requirements of the Clean Water Act.

As part of approved LTCP, the City conducted Post Construction Monitoring of the Rondout Creek during the 2014 recreational season. Post Construction Monitoring is the method used to assess whether the steps taken to control discharges comply with the USEPA CSO Control Policy and whether the receiving body meets or is not precluded from meeting Water Quality Standards (WQS).

Applicable WQS standards that were considered for Post Construction Monitoring include:

- The fecal coliform standard for both Class B and C designations of 200 colony-forming units per 100 milliliter (CFU/100 mL) geometric mean (geomean), of no less than five samples per time period;
- The total suspended solids (TSS) and settleable solids standard of no wastes that will cause deposition or impair the water for their best usages.
- The dissolved oxygen (DO) standard for non-trout waters of 5.0 milligram per milliliter (mg/L, minimum daily average) and 4.0 mg/L (minimum instantaneous), and;
- The temperature standard for non-trout waters at the surface of 90° Fahrenheit (F) (instantaneous maximum).

Based on the 5 month sampling and analysis period between May 2014 and September 2014, ARCADIS has concluded that the Rondout Creek is not impaired nor precluded from meeting WQS as set forth by the New York State Department of Conservation (NYS DEC). During that time period a total of approximately 175 samples were collected and analyzed for fecal coliform, TSS, suspended solids, DO and temperature each. Five separate locations within the receiving body were

routinely sampled to develop an accurate assessment of the water quality. One sampling point up stream of the Eddyville Dam was selected to assess the potential for impacts from upstream point and non-point sources.

The City also documented the occurrence of CSOs during the Post Construction Monitoring program by installing flow meters on the overflows. This recreational season was drier than a typically year, with no wet weather events reported in August and September that met the sampling criteria, however, the City recorded the CSO volumes reported in Table EX-1 for wet weather events in June (July 2), June and September (October 8).

**Table EX-1 Wet Weather Combined Sewer Overflow Volumes**

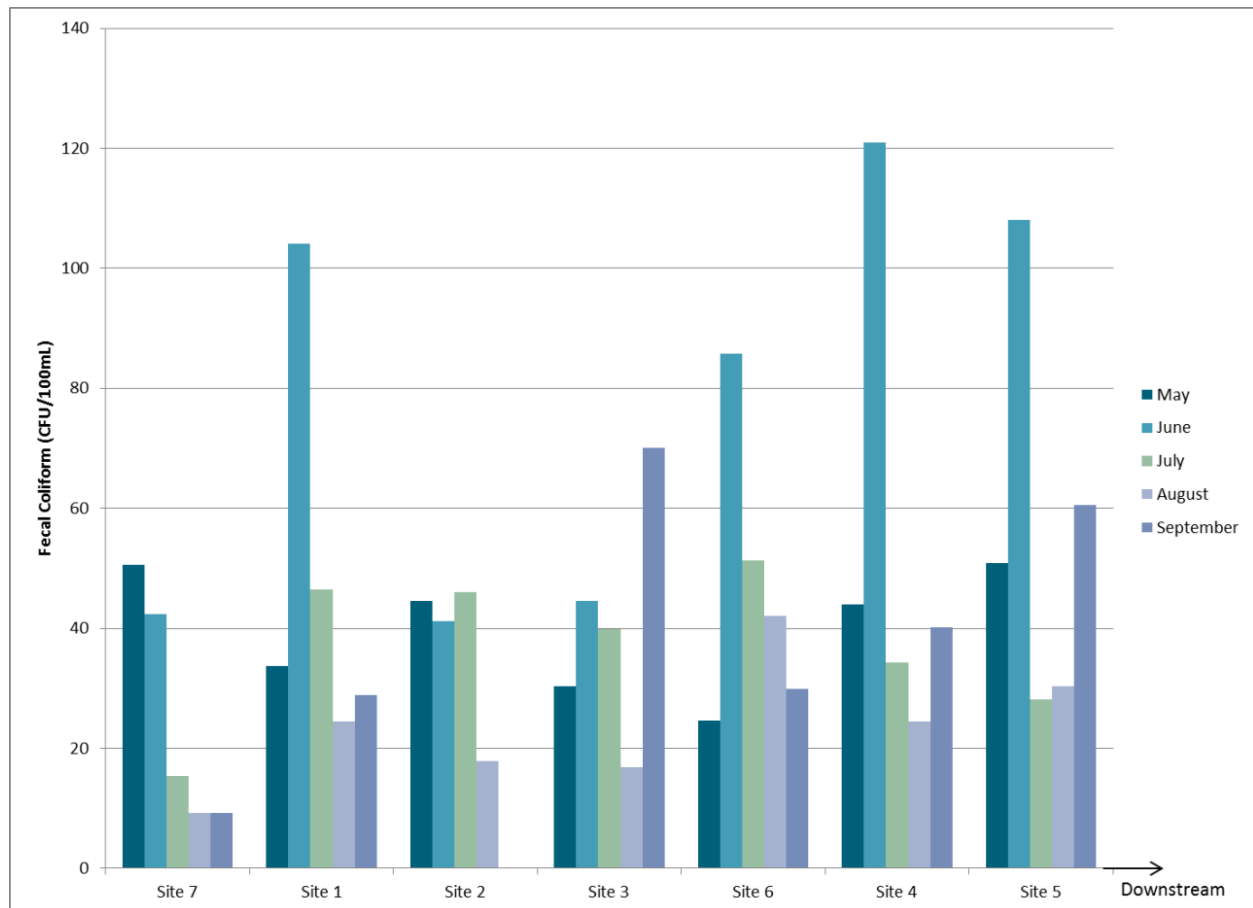
**Combined Sewer Overflow Volume (Million Gallons)**

	<b>5/16/2014</b>	<b>7/2/2014</b>	<b>7/27/2014</b>	<b>10/8/2014</b>
<b>Hasbrouck</b>	Flow observed*	2.16	0.126	1.07
<b>Broadway</b>	NA*	0.19	0.011	0.08
<b>Hunter</b>	NA*	0.65	0	0.11
<b>Wilbur</b>	NA*	N/A*	0	0.095
<b>Total</b>		3.00	0.14	1.36

\* Denotes no volumetric flow data available for this location

Figure EX-1 presents the monthly geomeans for the seven sampling locations within the Rondout Creek for fecal coliform. All geomeans showed the Rondout Creek in compliance with the 200 CFU/100mL WQS and typically less than 60 CFU/100mL.

Figure EX-1 Monthly Geometric Mean for Fecal Coliform



Tables EX-2 and EX-3 show the results for settleable solids and TSS. Settleable solids monthly arithmetic means were typically calculated to be 0.09 milliliter per Liter (mL/L), which is very low and will not impair the receiving body. TSS monthly arithmetic means were calculated to be between 1.8 mg/L and 9.2 mg/L.

**Table EX-2 Setttable Solids Monthly Arithmetic Mean**

	May	June	July	August	September
Site 1 (mL/L)	0.09	0.09	0.09	0.09	0.09
Site 2 (mL/L)	0.09	0.09	0.09	0.09	0.09
Site 3 (mL/L)	0.09	0.09	0.09	0.09	0.09
Site 4 (mL/L)	0.09	0.09	0.09	0.09	0.09
Site 5 (mL/L)	0.09	0.09	0.09	0.09	0.09
Site 6 (mL/L)	0.09	0.09	0.09	0.09	0.09
Site 7 (mL/L)	0.09	0.09	0.09	0.09	0.17

**Table EX-3 TSS Monthly Arithmetic Mean**

	May	June	July	August	September
Site 1 (mg/L)	4.4	6.4	2.3	3.3	3.0
Site 2 (mg/L)	5.3	5.4	3.4	2.6	3.4
Site 3 (mg/L)	3.0	4.8	3.4	3.2	4.6
Site 4 (mg/L)	9.2	6.0	4.6	3.8	5.3
Site 5 (mg/L)	7.6	6.0	4.2	6.0	8.0
Site 6 (mg/L)	3.8	4.2	3.3	4.3	2.8
Site 7 (mg/L)	4.4	5.3	1.9	1.8	2.8

At no time was the DO lower than 4.0 mg/L nor the temperature above 90° F. All of the data collected showed that the CSOs are not precluding the Rondout Creek from meeting the WQS as set forth by the NYS DEC.

## **1. Introduction**

### **1.1 Project Background**

The City of Kingston (City) has four combined sewer overflows (CSOs) that discharge to the Rondout Creek (Figure 1-1). CSOs are point sources subject to SPDES permit requirements including both technology-based and water quality-based requirements of the Clean Water Act.

The City was required as part of their Long Term Control Plan (LTCP) to perform Post Construction Monitoring of the Rondout Creek. Post Construction Monitoring as described in this section, is the method used to assess whether the steps taken to control discharges from the Combined Sewer System comply with the United States Environmental Protection Agency (USEPA) CSO Control Policy and, further, whether in complying with the Policy the Rondout Creek meets or is not precluded from meeting Water Quality Standards (WQS). The Plan For Post Construction Monitoring (Sampling Plan, Appendix A) updated the Monitoring and Modeling Plan approved by New York State Department of Environmental Conservation (NYS DEC) in 2007 and was used by the City of Kingston to collect the sampling data that is the basis for this CSO LTCP.

The Sampling Plan described the approach that was taken to characterize the receiving water quality of the Rondout Creek where the City's CSOs discharge. The intent of the receiving water sampling effort was to characterize the water quality during both dry and wet weather events, to assess the background pollution levels, to assess if the Rondout Creek meets WQS and to assess impacts of implementing the City's LTCP.

### **1.2 Water Quality Standards**

The State of New York has promulgated standards for water quality in Part 703 based on the designated class of the receiving water. The tidal portion of the Rondout Creek at Kingston is designated a Class C receiving water body. Six of the seven sampling locations are located in this section of the Rondout. The Rondout changes to a Class B receiving water body upstream of the Eddyville Dam.

Applicable NYS DEC standards that were considered for this study include:

- The fecal coliform standard for both Class B and C designations states that the geometric mean (geomean) of no less than five examinations (samples) shall

be less than 200 colony-forming units per 100 milliliter (CFU/100 mL). The standard does not differentiate between wet and dry-weather sampling. There is no specific single sample maximum criterion applicable to these receiving waters. This Report will compare geomeans to these criteria as is appropriate, but will also indicate the relative difference between individual samples and these geomean criteria as a point of reference for several sets of data.

- The applicable standard for both total suspended solids (TSS) and settleable solids states that “None from sewage, industrial wastes, or other wastes that will cause deposition or impair the water for their best usages.”
- The applicable dissolved oxygen (DO) standard “For non-trout waters, the minimum daily average shall not be less than 5.0 mg/L, and at no time shall the DO concentration be less than 4.0 milligram per liter (mg/L).”
- In non-trout waters the water temperature at the surface of a stream shall not be raised to more than 90 degrees Fahrenheit at any point.

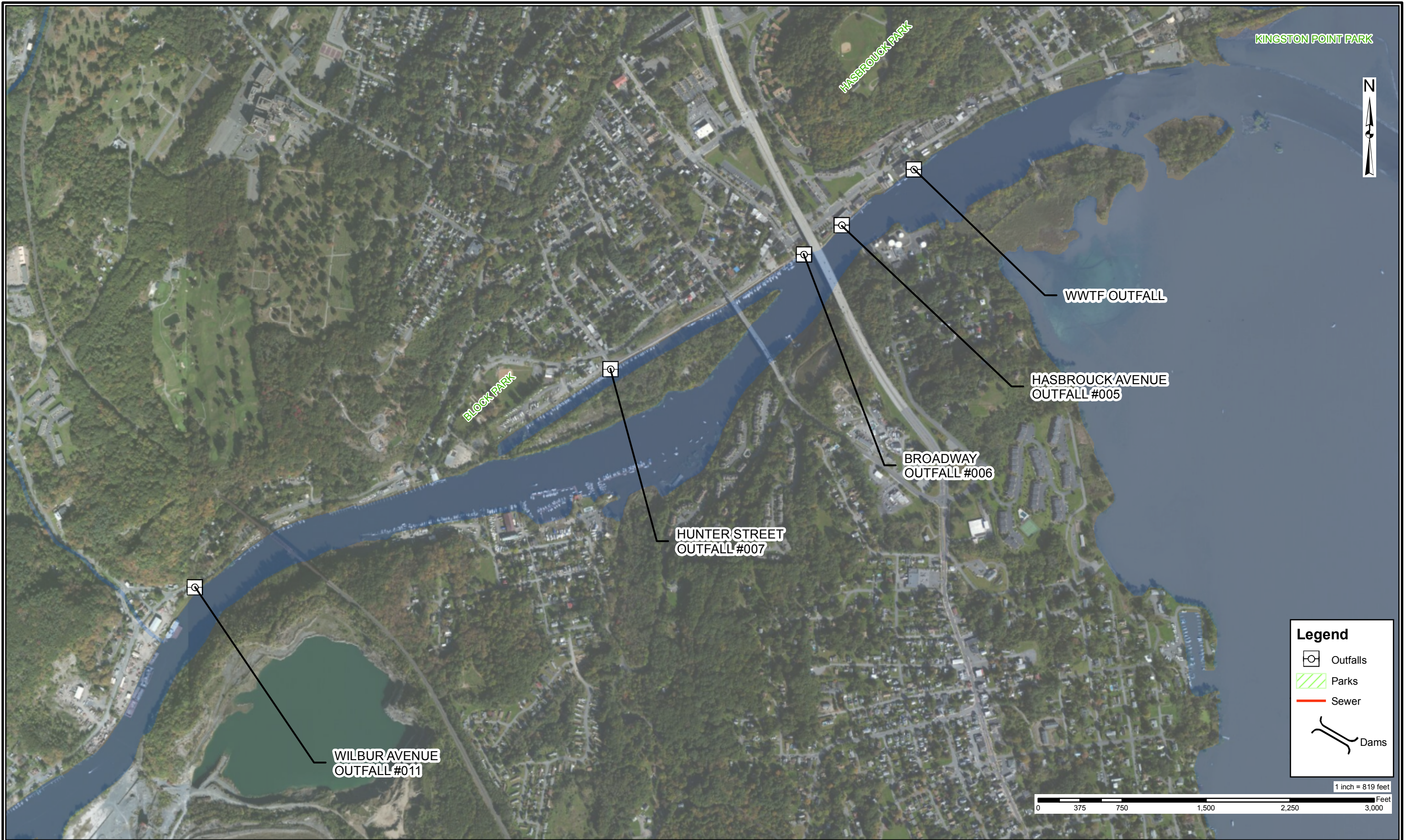
### **1.3 Methodology and Scope**

This Report briefly describes the locations, equipment, methodologies, and data management protocols that were used by the City’s Sampling Team to gather water quality data for the post construction water quality sampling and summarizes the results of that data collection effort.

Water quality data was collected during dry and wet weather to examine the potential effects of CSOs. Together with the CSO flow monitoring data, project-modeling tools, and historical data, the water quality sampling results will assist the City with assessing the impacts of CSOs, and access the post construction conditions relative to the water quality standards.

A minimum of five (5) sampling events were scheduled to be conducted per month at the seven (7) sampling locations described in Section 2.1. The dry-weather sampling events were conducted weekly no earlier than 48-72 hours after a rainfall event. During excessively wet months, the Sampling Plan stipulated that three of the dry-weather events could be taken at the earliest 24 hours after rainfall events. The monthly wet-weather sampling events were initiated within four to eight hours of the start of a precipitation event that resulted in an overflow.







## **2. Receiving Water Quality Sampling Program**

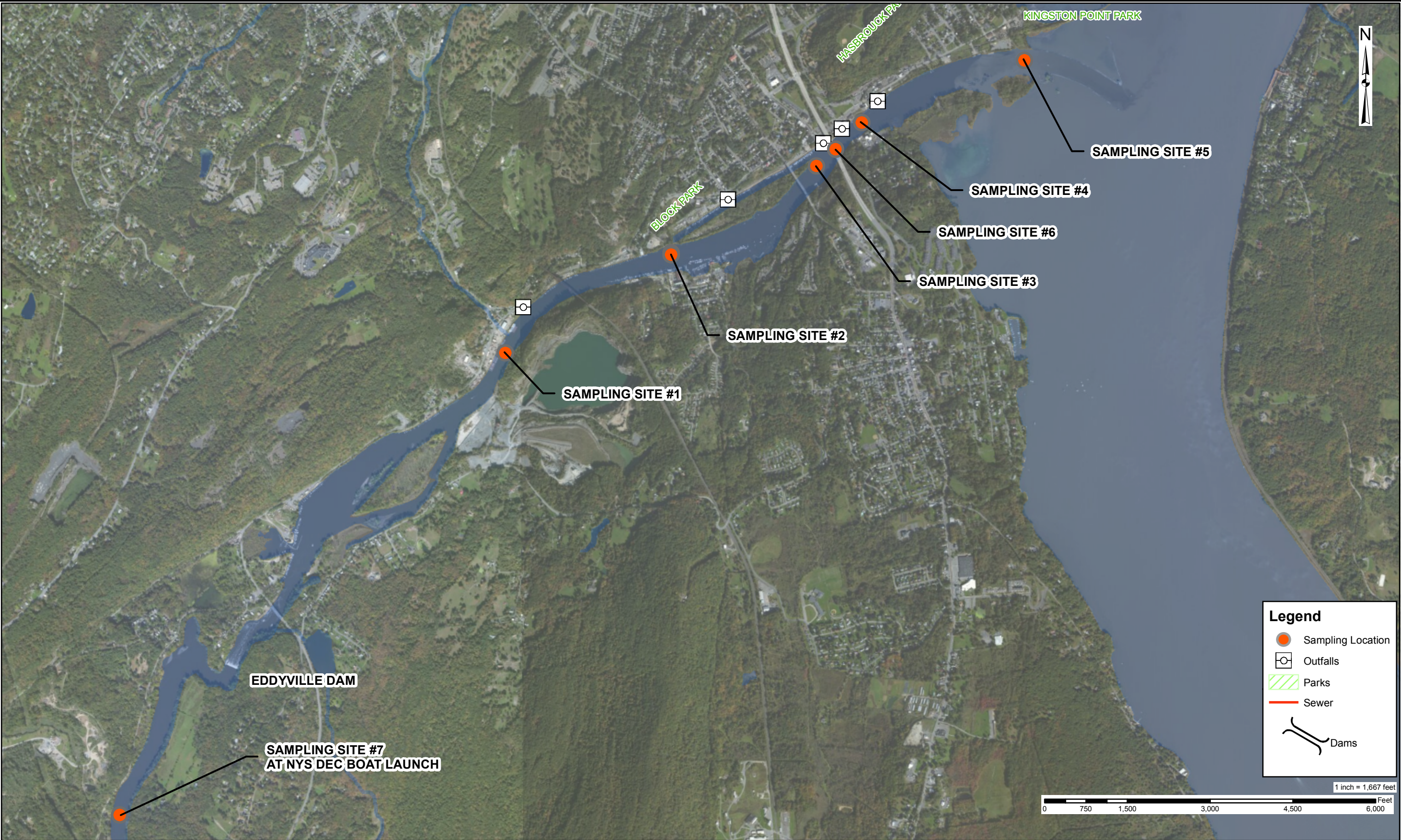
### **2.1 Water Quality Sampling Locations**

Discrete grab samples of receiving water were collected for laboratory analyses at seven sample locations on Rondout Creek, which are listed in Table 2-1 and shown on Figure 2-1. The intent of Figure 2 is to present the general locations for this document.

**Table 2-1 Receiving Water Body Sample Locations**

Sampling Location Identification Number	Sample Collection Location
#1	Middle of Rondout Creek approximately 250 yards upstream of the Wilbur Avenue Outfall
#2	Middle of Rondout Creek upstream of Block Park
#3	Middle of Rondout Creek approximately 150 yards upstream of bridge
#4	Middle of Rondout Creek approximately 200 yards downstream of bridge
#5	Middle of Rondout Creek upstream of Kingston Point Park
#6	Middle of Rondout Creek underneath the John T. Loughran Bridge
#7	Upstream of the Eddyville Dam at the NYS DEC boat launch







## **2.2 Sampling Equipment**

The water quality sampling program used the following equipment:

- Receiving water body samples were collected from a boat in the middle of Rondout Creek by a team of 2 to 3 field personnel with sampling bottles provided by the laboratories.
- A Hach HQ40d meter with a LDO probe was used to collect field parameters during sample collection at all sampling locations, and was calibrated between each sampling event.
- A GPS locator was used by each team to ensure consistent sampling locations for dry- and wet-weather events.
- Sampling Event Summary Sheets were filled out for each sampling team to record details of sample collection activities.
- Nitrile surgical gloves (disposable) were worn by sampling personnel at all times during sampling events.

## **2.3 Surface Water Sampling Procedures**

Surface water samples were collected using the direct grab sampling technique. Samples were collected at each location in the following order using the detailed procedures outlined the Sampling Plan:

1. Fecal coliform
2. TSS, settleable solids, and floatables
3. In-situ field measurements (dissolved oxygen and temperature)

Fecal coliform samples were delivered to Smith Environmental Laboratory, Inc. in Hyde Park, New York within approximately five hours of sample collection to meet the six hour holding time for these analyses.

## **2.4 CSO Flow Monitoring**

The City, in response to comments raised by the NYS DEC in their approval letter for the City's LTCP, installed flow meters to monitor flow at the four CSO locations in order to verify when discharges occurred and to initiate wet-weather sampling events. The City retained ARCADIS to subcontract with McIntosh Controls Corporation for the installation of four SMARTCOVER®-S Units for the four CSO regulators at Wilbur, Hunter, Broadway, and Hasbrouck. The SMARTCOVER®-S Units consist of an

electronics unit, ultrasonic meter, communications antenna, and power pack. These units were installed at all four of the CSOs by July 1, 2014.

### 3. Sampling Results

#### 3.1 Sampling Overview

Four dry-weather sampling events were performed per month (May through September) as well as four wet-weather sampling events (May through October). A dry-weather sampling event was defined as an event that was preceded by 48 to 72-hours of dry weather. A wet-weather sampling event was defined as an event that was preceded by 72 hours of dry-weather and resulted in more than 0.25 inches of rain. The dry- and wet-weather sampling events along with their measured precipitation are shown in Table 3-1.

**Table 3-1 Summary of Sampling Events**

Sampling Event No.	Date Time	Direction of Flow	Sampling Condition	Rainfall Amount (in)
1	5/7/14 10:30	Out	Dry	
2	5/12/14 10:55	In	Dry	
3	5/16/14 10:05	Out	Wet	
4	5/20/14 10:40	Out	Dry	1.4
5	5/27/14 11:40	Out	Dry	
6	6/3/14 9:25	Out	Dry	
7	6/16/14 10:55	Out	Dry	
8	6/20/14 14:10	Out	Dry	
9	6/23/14 10:30	In	Dry	
10	7/2/14 18:15	Out	Wet	1.1
11	7/7/14 1:45	Out	Dry	0.27
12	7/18/14 11:10	Out	Dry	
13	7/23/14 10:05	In	Dry	
14	7/27/14 13:15	In	Wet	
15	7/31/14 10:50	Out	Dry	0.48
16	8/5/14 10:05	Out	Dry	
17	8/12/14 9:35	Out	Dry	
18	8/18/14 11:00	Out	Dry	
19	8/26/14 11:15	In	Dry	
20	9/5/14 0:05	Out	Dry	
21	9/9/14 11:40	In	Dry	
22	9/19/14 10:20	In	Dry	
23	9/24/14 13:00	In	Dry	
24	10/8/14 9:45	Out	Wet	0.48

The four wet-weather events provided a range of wet-weather conditions to observe changes in bacteria concentration during an event. The first wet-weather sampling event occurred on May 16 where rainfall was measured to be 1.4 inches at the City of Kingston Wastewater Treatment Plant (WWTP). This event occurred before flow meters were installed and tested, so no data for the volume of CSO flow was recorded. Per the protocol written in the Sampling Plan, City employees were to inspect Hasbrouck to ensure it was overflowing prior to initiating a wet-weather event, which inspection confirmed it was overflowing prior to the wet-weather sampling event on May 16.

The second wet-weather sampling event occurred on July 2 and had a total measured rainfall of 1.1 inches. During this event, all four of the CSOs overflowed as shown in Table 3-2. However, the Wilbur CSO flow monitor was being installed and had not been adequately tested. That monitor was providing erroneous flow measurements during this event. No overflow volume is being reported for Wilbur CSO for July 2, 2014.

The third wet-weather sampling event occurred on July 27 where rainfall was measured to be 0.27 inches. This event caused two of the CSOs to overflow for a total overflow volume of 0.14 million gallons of combined sewage.

The final wet-weather sampling event was on October 8 with a measured rainfall of 0.48 inches, which caused all four of the CSOs to overflow for a combined volume of 1.36 million gallons.

**Table 3-2 Wet Weather Event  
Combined Sewer Overflow Volume (Million Gallons)**

	<b>5/16/2014</b>	<b>7/2/2014</b>	<b>7/27/2014</b>	<b>10/8/2014</b>
<b>Hasbrouck</b>	Flow observed*	2.16	0.126	1.07
<b>Broadway</b>	NA*	0.19	0.011	0.08
<b>Hunter</b>	NA*	0.65	0	0.11
<b>Wilbur</b>	NA*	N/A*	0	0.095
<b>Total</b>		3.00	0.14	1.36

\* Denotes no volumetric flow data available for this location

### **3.2 Bacteria**

In order to compare the seven sampling locations to the WQS, geomeans of the fecal coliform counts were calculated for each month during the sampling period for each

site. The geomeans were calculated by first averaging in the duplicate samples then taking the geomean of the averaged values. These geomean values show that none of the sampling locations exceeded the WQS during the five months and the values are presented in Table 3-3. It should be noted that the months of August and September were unusually dry months. The sampling plan required four dry-weather events per month and one wet-weather event. Because of the atypical weather, only four sampling events were performed during the month of August, all of which were dry-weather. For the month of September, there were four dry-weather events and one wet-weather sampling event that occurred in October.

Figures 3-1 through 3-5 show the fecal coliform values for the sampling period, with each plot corresponding to a month of sampling. The sample locations are listed from upstream on the left to downstream on the right in each of the five plots.

Figure 3-6 shows the geomeans for each month of the sampling period. It can be seen from Figure 3-6 that the month of June had elevated fecal coliform concentrations for site numbers 1, 6, 4, and 5. This can be attributed in part to the wet-weather event that occurred on July 2, which activated all four of the CSO's that were monitored. Even with all four of the CSOs activated during this wet-weather event, the geomeans did not exceed the WQS of 200 CFU/100mL. It should be noted that for this sampling event, site 7, which is not impacted by any of the City's CSOs exhibited a fecal concentration of 450 CFU/100mL, and therefore other upstream probable nonpoint sources could be causing a higher baseline. During this same event, sites 4 and 6, which are downstream of the Hasbrouck and Broadway CSOs respectively, saw the highest fecal concentrations. The elevated fecal concentrations can be attributed to the overflows at these locations prior to the time that the sampling event was initiated.

The only other wet-weather sampling event that saw fecal concentrations double that of the baseline of the dry-weather results was the October 8 event. For this event, the concentrations at sites 4 and 5 were 860 and 640 CFU/100mL, respectively. This could be the result of the overflow of the Hasbrouck CSO; however, this did not adversely impact the geomean.

**Table 3-3 Fecal Coliform Concentrations (CFU/100mL)**

<b>Sampling Location ID</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>
5/7/2014	9	60	10	40	35	30	60
5/12/2014	20	9	20	50	20	10	9
5/16/2014	50	85	40	10	30	20	80
5/20/2014	160	190	80	110	90	50	190
5/27/2014	30	20	40	75	180	30	40
<b>Geomean - May</b>	<b>33.7</b>	<b>44.5</b>	<b>30.3</b>	<b>44</b>	<b>50.9</b>	<b>24.6</b>	<b>50.5</b>
6/3/2014	60	10	32.5	20	30	10	10
6/16/2014	270	340	250	320	260	310	300
6/20/2014	35	50	50	60	80	20	10
6/23/2014	80	10	10	10	50	50	10
7/2/2014	270	70	47.5	6750	470	1500	450
<b>Geomean - June</b>	<b>104</b>	<b>41.2</b>	<b>45.4</b>	<b>121</b>	<b>108</b>	<b>85.8</b>	<b>42.3</b>
7/7/2014	150	100	30	105	40	110	60
7/18/2014	10	20	30	50	70	60	9
7/23/2014	80	30	40	30	70	45	9
7/27/2014	60	380	140	30	9	30	9
7/31/2014	30	9	20	10	10	40	20
<b>Geomean - July</b>	<b>46.4</b>	<b>46</b>	<b>39.9</b>	<b>34.3</b>	<b>28.1</b>	<b>51.3</b>	<b>15.4</b>
8/5/2014	10	25	10	30	50	50	10
8/12/2014	60	10	40	80	30	30	9
8/18/2014	20	10	10	15	9	30	9
8/26/2014	30	40	20	10	65	70	9
<b>Geomean - August</b>	<b>24.5</b>	<b>17.8</b>	<b>16.8</b>	<b>24.5</b>	<b>30.6</b>	<b>42.1</b>	<b>9.24</b>
9/5/2014	30	9	50	10	80	30	9
9/9/2014	70	20	30	40	40	10	9
9/19/2014	9.5	20	350	10	40	20	9
9/24/2014	10	9.5	40	30	10	20	9
10/8/2014	100	190	80	860	640	200	10
<b>Geomean - September</b>	<b>28.8</b>	<b>23</b>	<b>70</b>	<b>40.1</b>	<b>60.6</b>	<b>29.9</b>	<b>9.19</b>

Figure 3-1 May Fecal Concentrations

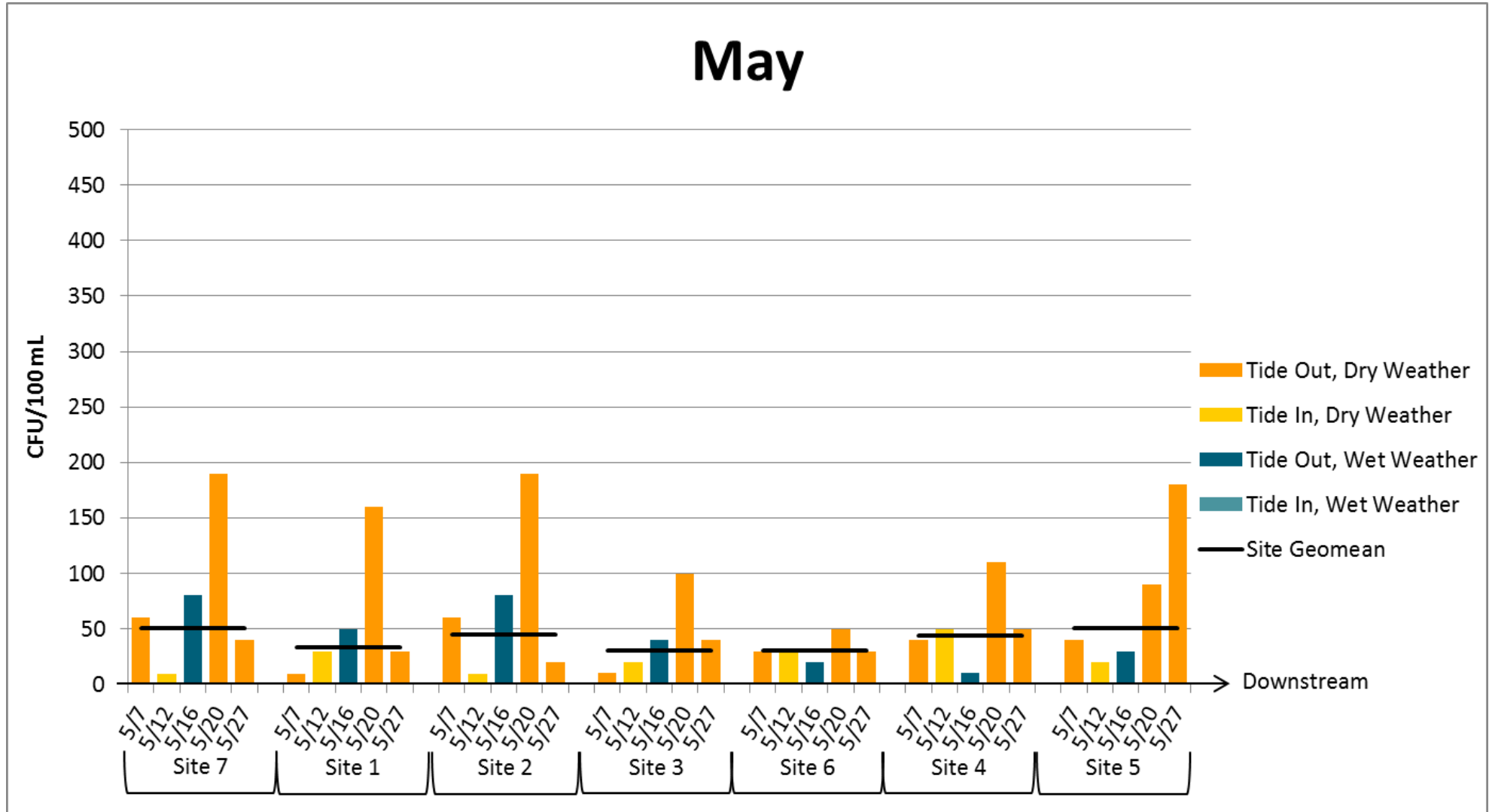




Figure 3-2 June Fecal Concentrations

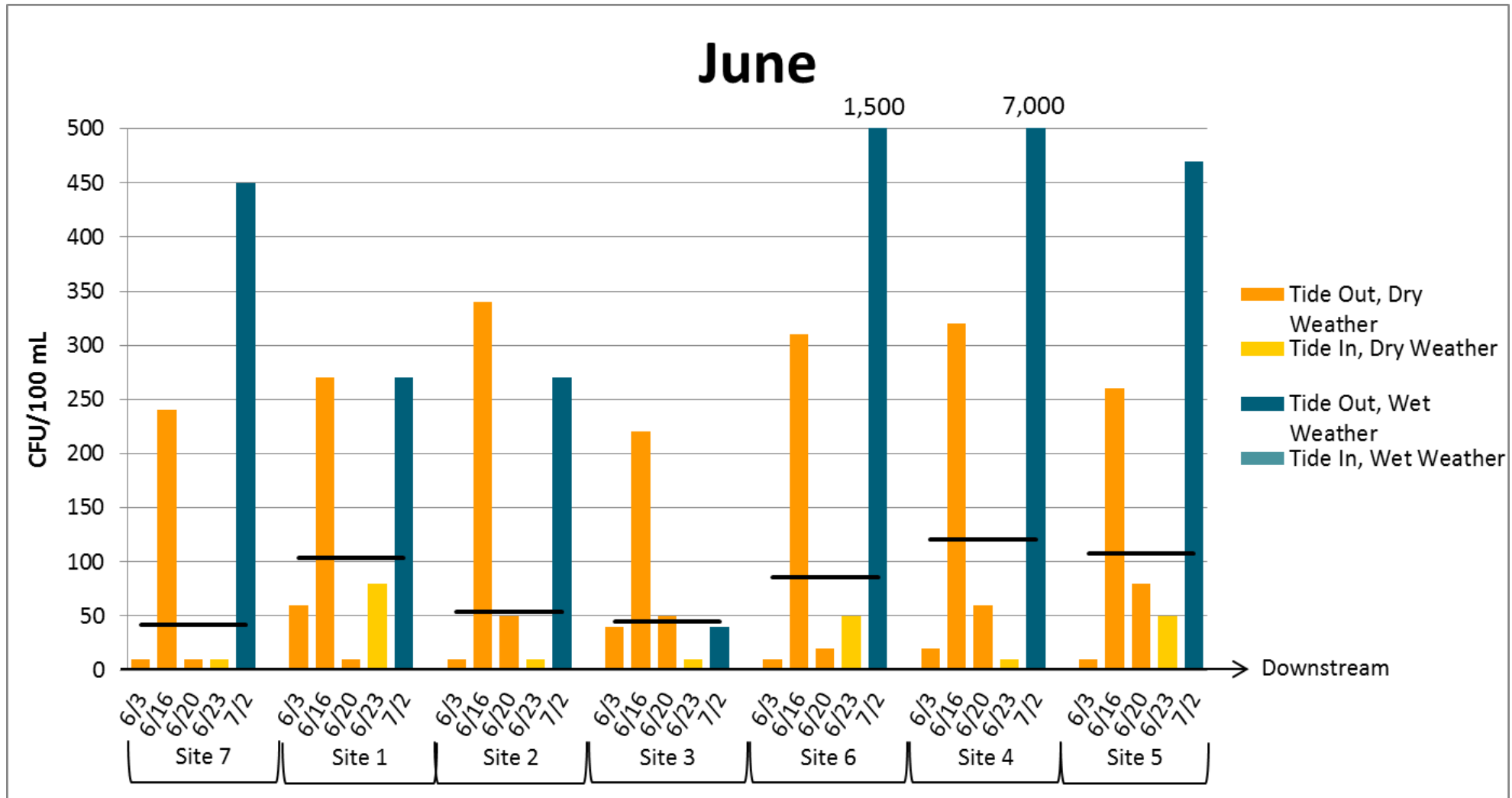


Figure 3-3 July Fecal Concentrations

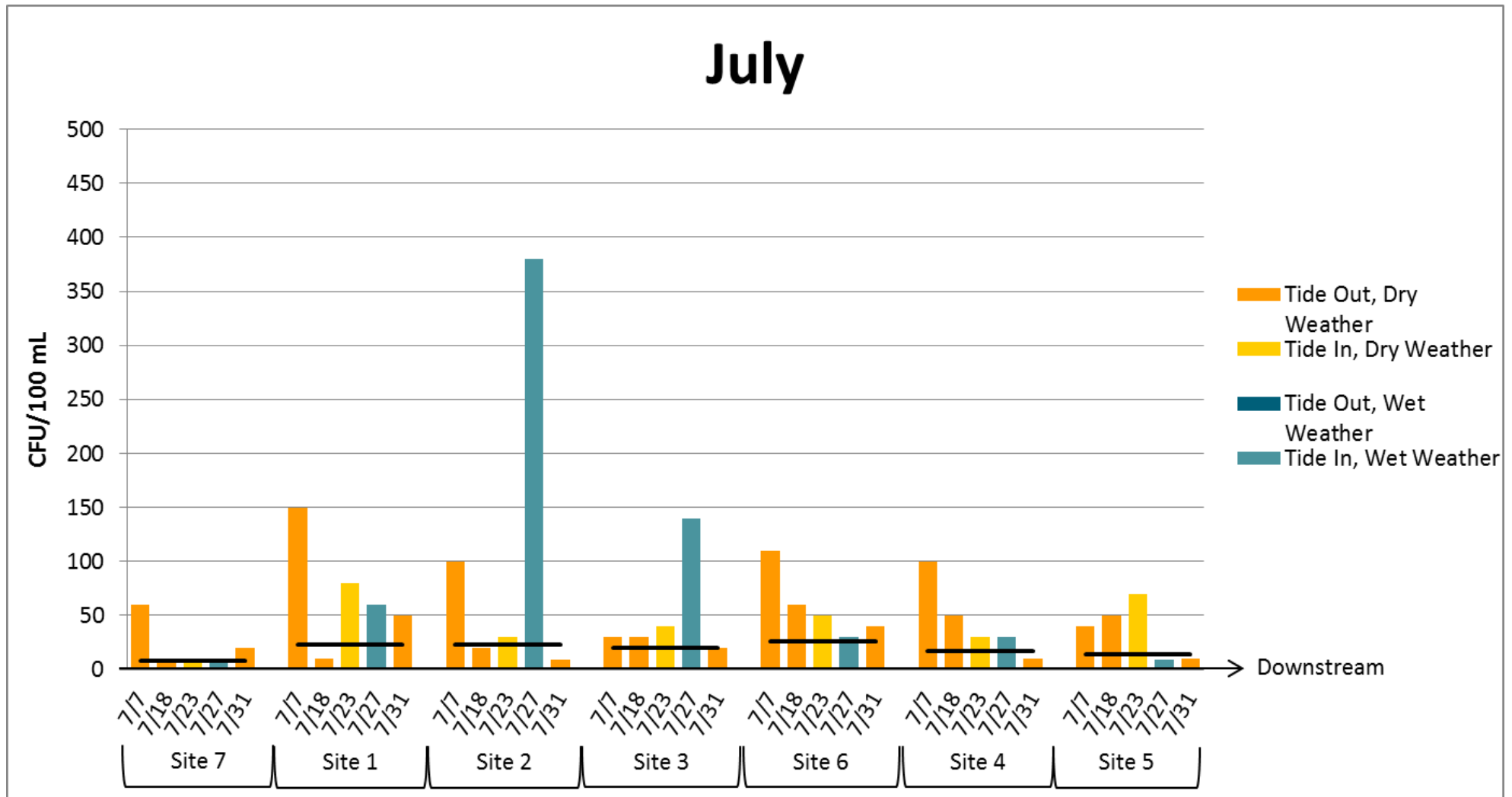


Figure 3-4 August Fecal Concentrations

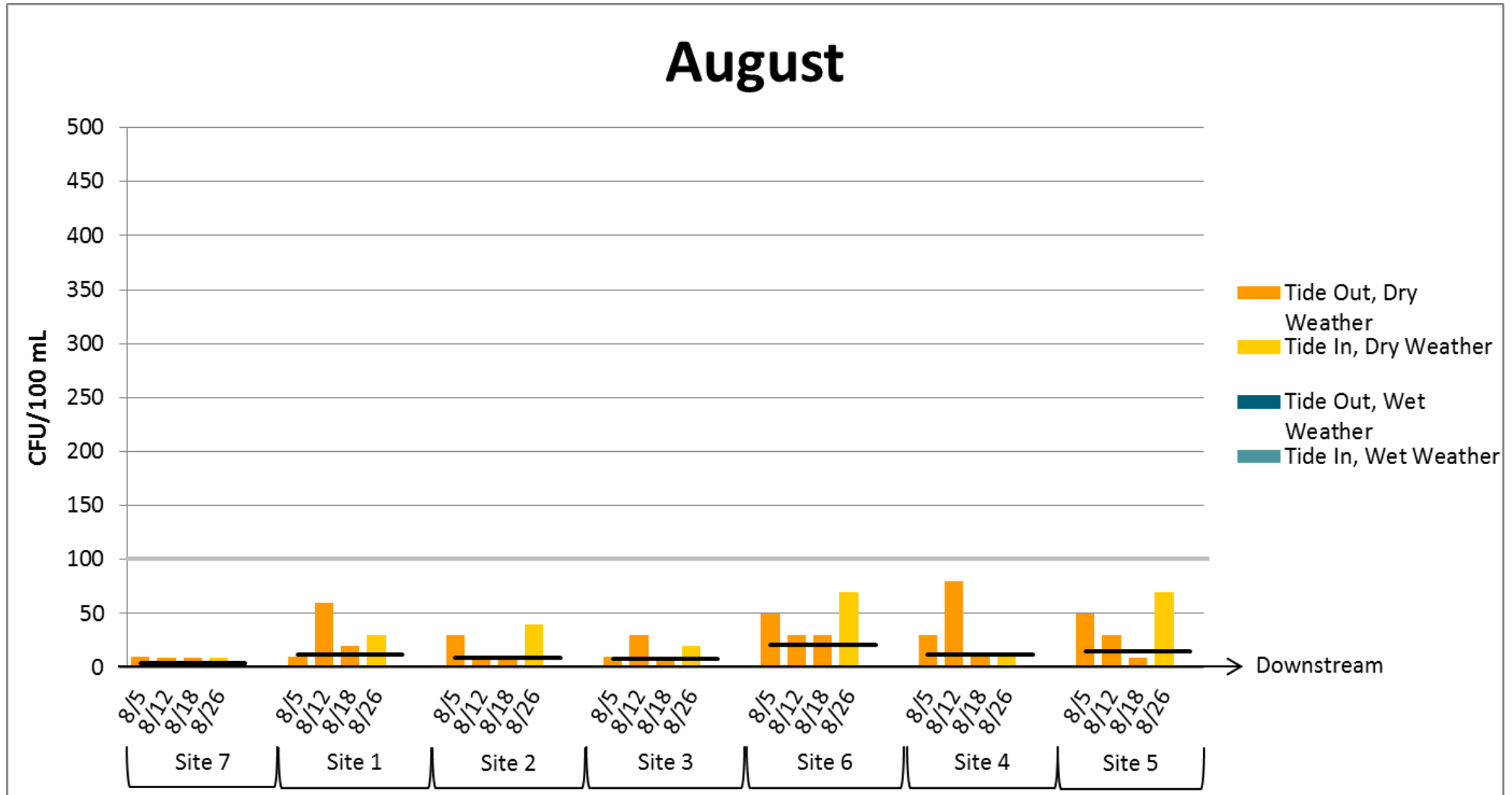


Figure 3-5 September Fecal Concentrations

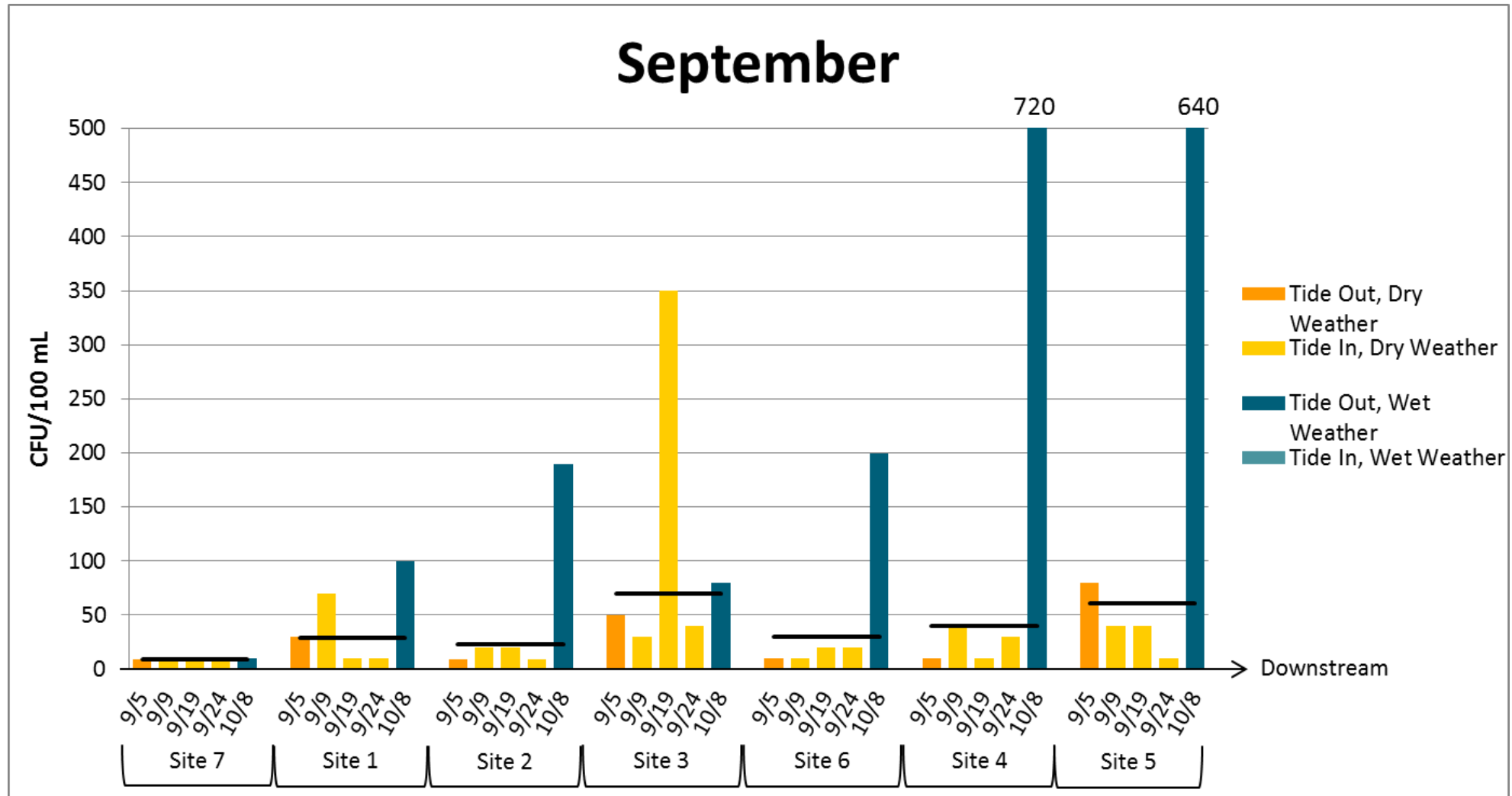
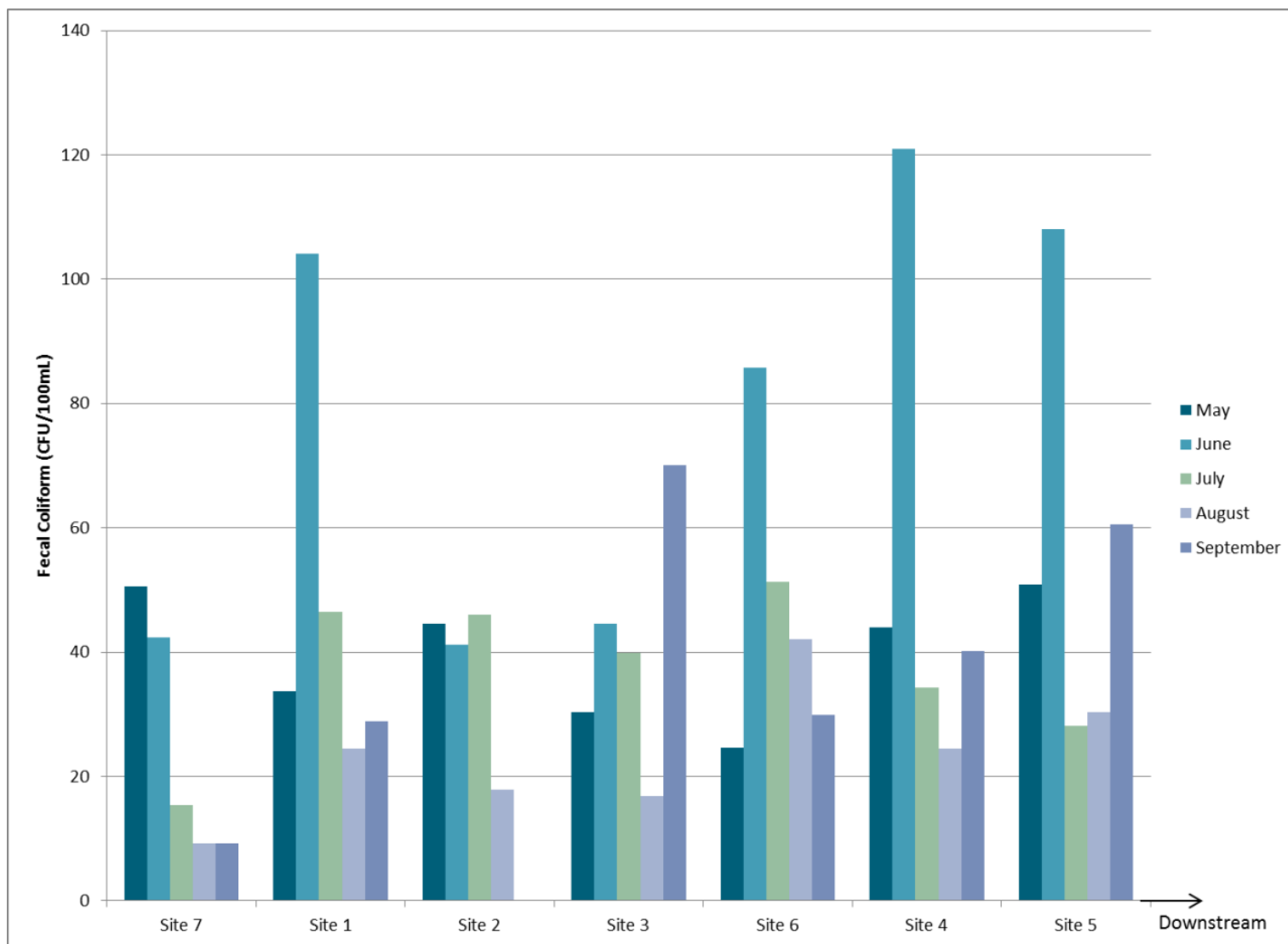


Figure 3-6 Monthly Geometric Mean Fecal Concentrations



### 3.3 Solids

Settleable solids and TSS were sampled for both dry- and wet-weather sampling events. Due to an lab error during preparation for the first sampling event on May 7<sup>th</sup>, the sampling team was not provided with enough sampling bottles for solids sampling, and therefore only four of the seven locations were sampled for solids during this event. The sites that were not sampled were Sites 1, 3, and 4. Despite not having data for this sampling event, the five months of data that were collected indicate that these samples would not significantly impact arithmetic means.

The monthly arithmetic mean for settleable solids for each site was calculated to be 0.1 mg/L as shown in Table 3-4, with the exception of Site 7 during September, which had an average of 0.17 milliliter per liter (mL/L). At these concentrations, settleable solids do not cause deposition or impair the waters from their intended use.

**Table 3-4 Settleable Solids Monthly Arithmetic Mean Concentrations (mL/L)**

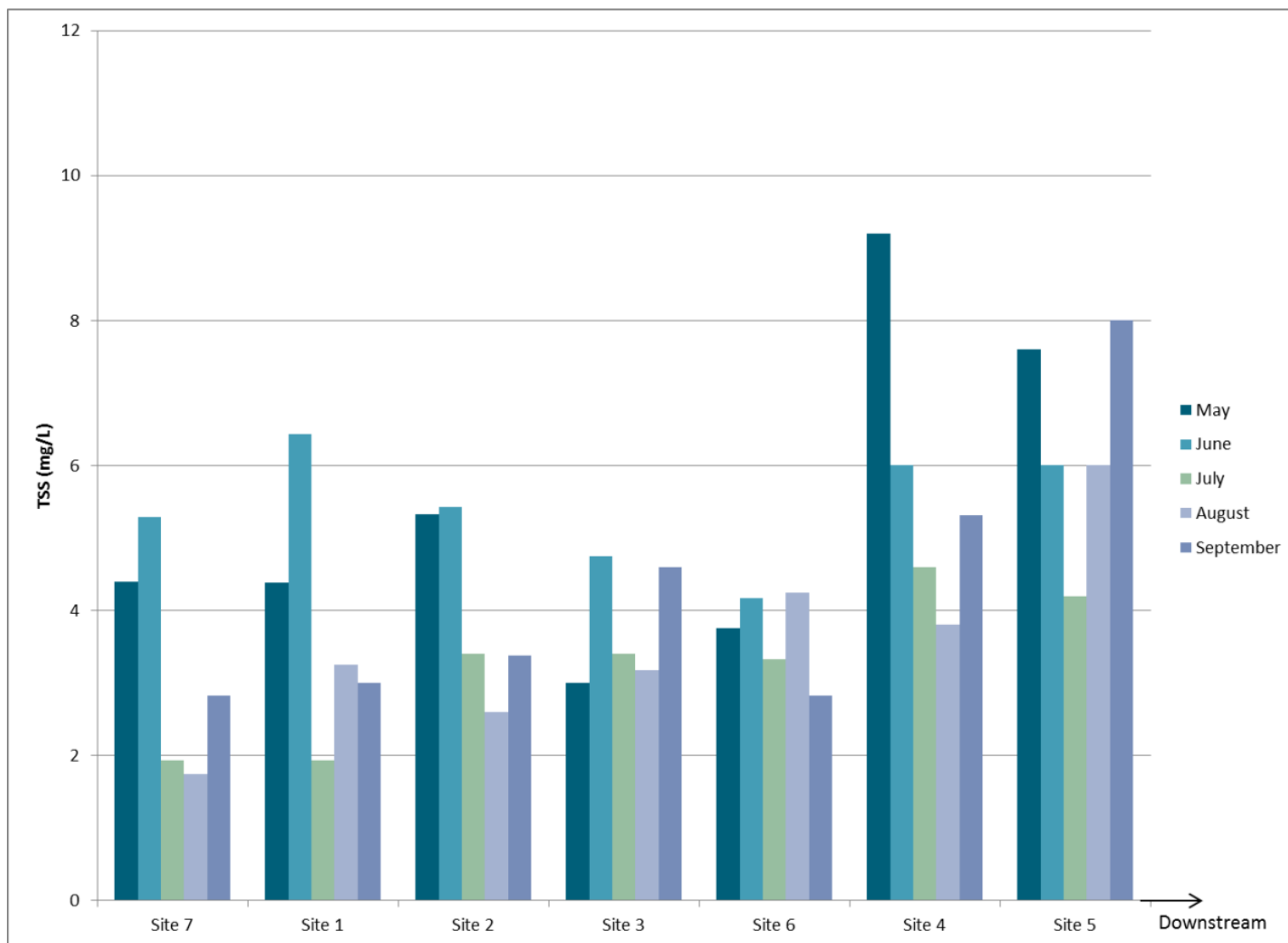
	May	June	July	August	September
<b>Site 1</b>	0.09	0.09	0.09	0.09	0.09
<b>Site 2</b>	0.09	0.09	0.09	0.09	0.09
<b>Site 3</b>	0.09	0.09	0.09	0.09	0.09
<b>Site 4</b>	0.09	0.09	0.09	0.09	0.09
<b>Site 5</b>	0.09	0.09	0.09	0.09	0.09
<b>Site 6</b>	0.09	0.09	0.09	0.09	0.09
<b>Site 7</b>	0.09	0.09	0.09	0.09	0.17

TSS results shown in Table 3-5 similarly show that suspended solids do not cause deposition or impair the waters for their intended use. Figure 3-7 shows the arithmetic mean for TSS for each site during the five-month sampling period.

**Table 3-5 Total Suspended Solids Monthly Arithmetic Mean Concentrations (mg/L)**

	May	June	July	August	September
<b>Site 1</b>	4.4	6.4	2.3	3.3	3.0
<b>Site 2</b>	5.3	5.4	3.4	2.6	3.4
<b>Site 3</b>	3.0	4.8	3.4	3.2	4.6
<b>Site 4</b>	9.2	6.0	4.6	3.8	5.3
<b>Site 5</b>	7.6	6.0	4.2	6.0	8.0
<b>Site 6</b>	3.8	4.2	3.3	4.3	2.8
<b>Site 7</b>	4.4	5.3	1.9	1.8	2.8

Figure 3-7 Total Suspended Solids Monthly Arithmetic Mean



## 4. Field Measurements

### 4.1 Overview

Field measurements of general water quality variables were made during sample collection for all locations. The water temperature and DO were measured with a field probe at the time that each bacteria sample was collected.

### 4.2 Results

Temperature measurements at the sites were consistent with the season of the sample, with colder temperatures early on and then later in the season. The temperature data is presented in Table 4-1.

**Table 4-1 Water Temperature (°C)**

Sampling Location ID	1	2	3	4	5	6	7
5/7/2014	15.4	14.7	14.4	14.3	14.1	14.2	19.5
5/12/2014	18.4	17.5	17.1	17.0	16.9	17.0	16.3
5/16/2014	19.2	19.1	19.1	19.0	19.1	19.0	19.3
5/20/2014	17.7	17.2	16.9	16.8	16.9	16.5	18.1
5/27/2014	21.4	21.9	21.0	20.8	21.1	20.8	21.0
6/3/2014	22.3	21.1	21.7	21.2	21.4	21.4	22.5
6/16/2014	22.4	20.8	20.6	21.3	21.8	21.0	22.4
6/20/2014	25.8	25.2	25.2	24.3	24.2	24.6	25.1
6/23/2014	25.1	24.6	24.0	23.8	23.7	24.5	25.1
7/2/2014	26.9	26.6	26.6	26.5	26.6	26.5	26.7
7/7/2014	25.9	24.8	24.8	24.6	25.7	24.9	25.1
7/18/2014	26.5	25.7	25.5	25.0	24.8	25.1	25.5
7/23/2014	27.1	26.2	26.2	26.4	26.9	26.5	26.4
7/27/2014	28.6	27.7	27.4	26.4	27.3	26.5	26.8
7/31/2014	25.5	25.0	25.3	25.5	25.6	25.6	25.3
8/5/2014	26.2	25.5	25.5	26.1	25.7	26.3	25.7
8/12/2014	25.2	24.9	25.1	25.2	25.1	25.2	24.7
8/18/2014	24.3	23.4	23.7	23.6	23.5	23.7	23.0
8/26/2014	25.7	24.9	24.6	25.4	25.1	26.2	24.9
9/5/2014	26.7	26.7	26.6	26.2	26.3	25.8	26.9
9/9/2014	26.2	24.0	24.4	24.2	24.2	24.1	24.2
9/19/2014	20.7	19.6	19.8	20.0	20.2	19.8	19.6
9/24/2014	21.3	20.7	20.3	20.4	21.1	20.4	20.8
10/8/2014	18.6	18.2	18.3	18.6	18.5	18.4	19.3



DO measurements for all of the sites are listed in Table 4-2. The samples all showed DO readings meeting the WQS.

**Table 4-2 Dissolved Oxygen Concentrations (mg/mL)**

<b>Sampling Location ID</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>
5/7/2014	10.1	10.3	10.4	10.4	10.5	10.4	9.8
5/12/2014	9.4	9.6	9.7	9.8	9.6	9.7	9.9
5/16/2014	8.9	9.0	9.0	9.1	8.9	9.1	8.5
5/20/2014	9.4	9.4	9.5	9.6	9.6	9.8	8.8
5/27/2014	8.9	8.8	8.9	9.2	8.3	9.1	8.5
6/3/2014	8.6	8.7	8.7	8.6	8.7	8.8	8.0
6/16/2014	8.3	8.5	8.5	8.3	8.4	8.4	7.4
6/20/2014	8.7	8.7	8.8	8.8	8.8	8.8	8.0
6/23/2014	8.4	24.6	9.4	8.6	8.3	8.9	8.4
7/2/2014	7.5	7.7	8.3	8.5	9.1	8.4	6.0
7/7/2014	8.1	7.9	7.7	8.0	7.7	8.0	6.5
7/18/2014	7.1	7.2	7.3	7.2	7.4	7.3	6.1
7/23/2014	6.9	7.7	7.9	8.1	6.8	7.9	6.0
7/27/2014	6.8	7.2	7.4	7.4	6.8	7.7	6.1
7/31/2014	7.0	7.4	7.4	7.5	7.6	7.5	4.8
8/5/2014	9.1	9.6	9.6	8.9	7.9	9.3	7.4
8/12/2014	9.1	9.5	9.7	10.1	8.9	10.1	6.2
8/18/2014	8.1	7.8	7.8	7.8	7.1	7.9	7.1
8/26/2014	7.7	8.9	8.0	7.7	7.6	6.7	7.3
9/5/2014	12.5	12.1	11.1	10.8	9.7	10.4	9.3
9/9/2014	8.7	9.2	8.6	7.7	7.7	8.1	6.6
9/19/2014	8.1	8.7	8.9	8.7	8.5	8.8	6.8
9/24/2014	9.7	10.1	9.4	8.6	8.6	8.8	7.6
10/8/2014	7.9	8.0	8.1	8.3	8.3	8.4	6.1

## **5. Quality Assurance / Quality Control**

### **5.1 Overview**

The Quality Assurance and Quality Control (QA/QC) protocols for this sampling program were defined in the Sampling Plan. Field QA included requirements for record keeping and chain of custody. In addition, training was conducted with the field crews prior to the sampling season.

Lab QA/QC performance was stipulated to meet certification standards as acceptable to NYS DEC. In addition to the internal lab QA/QC, each field team collected duplicate samples at one of their sampling sites for each event.

### **5.2 Field Sampling QA/QC**

The field crews provided standardized notations on field sheets for each station for all events that correspond to chain of custody attached to samples submitted to the laboratory for bacterial or chemical analysis. A complete chain of custody is available for all lab samples and the original field sheets each field measurement was recorded on were submitted to the project team.

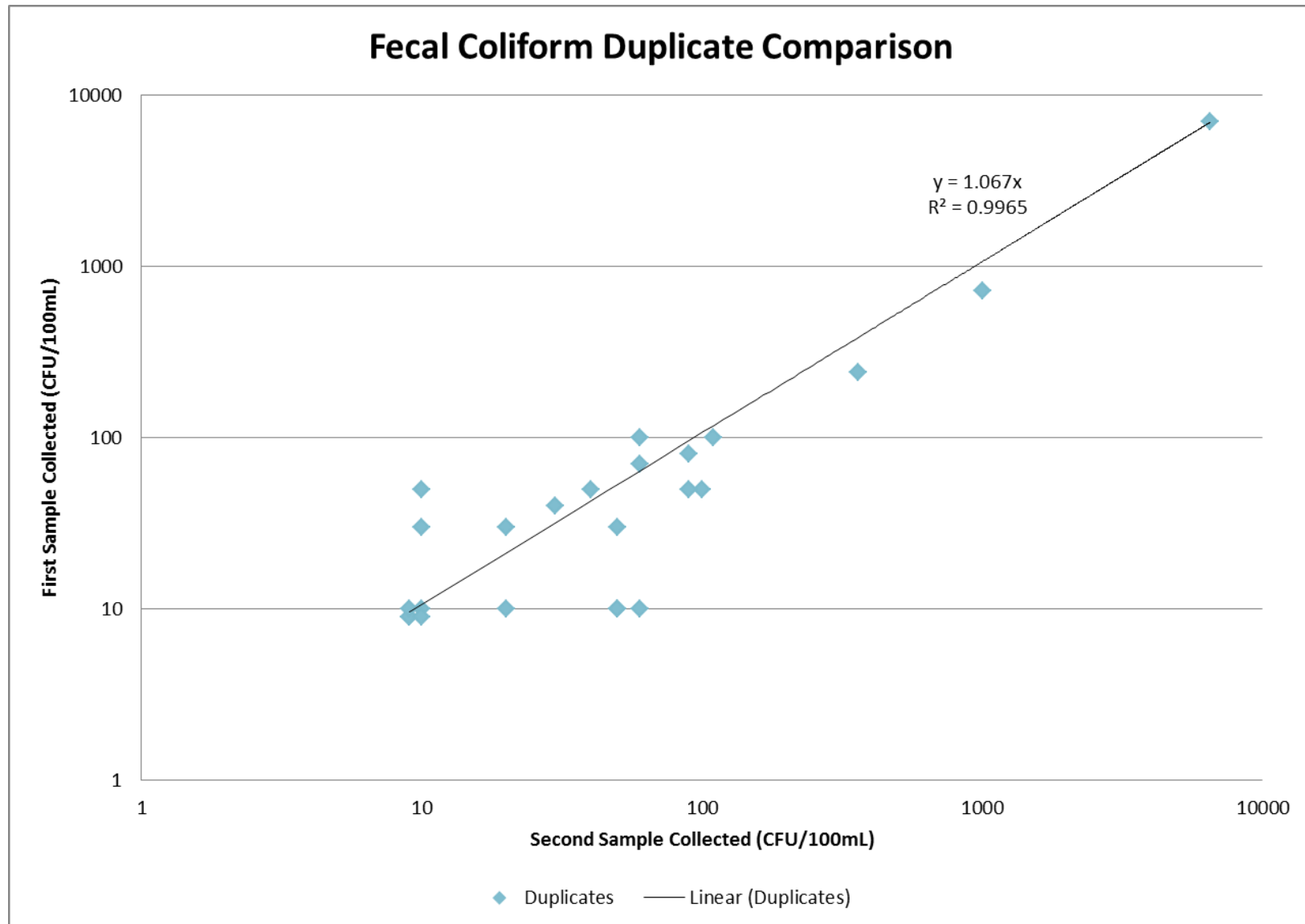
Quality control review of the field data consisted of examination of the values recorded and the documentation provided on the field sheets.

### **5.3 Laboratory QA/QC**

Smith Environmental Laboratory provided internal chain of custody documentation for all samples and additional documentation showing that they met their internal QA/QC checks for all of the data provided. For the bacteria samples, the range of dilutions was selected to provide quantification down to 10 CFU/100mL.

Analysis of the duplicate samples shows strong correlation for fecal coliform concentrations. The relationship of the bacteria samples to their duplicates is shown in Figure 5-1. Some deviation between originals and duplicate samples is anticipated due to the variability of bacteria in water samples and the errors inherent in dilution based analysis. Despite these known challenges, the differences between measured values and their duplicates were within a range that is clearly acceptable for this type of test.

Figure 5-1 Comparison of Fecal Coliform Duplicate Samples



## **6. Summary and Conclusions**

### **6.1 Sampling Program Goals and Objectives**

Sampling was completed for a total of twenty (20) dry-weather events and four (4) wet-weather events over a five (5) month period of time spanning May through the beginning of October. Sampling was conducted at seven sampling locations on the Rondout Creek, with one sampling location located upstream of the Eddyville Dam. Dry-weather samples were collected to develop an understanding of the specific ambient or background water quality parameters measured. Wet-weather samples were collected to ascertain the water quality impact of the wet-weather events on the Rondout Creek.

Samples were collected for fecal coliform, settleable solids, and TSS analyses in order to assess the data relative to the existing NYS DEC Class B and Class C fecal coliform standard defined in Part 703.4. Field measurements of general water quality variables were also reported for temperature and DO in order to assess the data relative to the existing NYS DEC standards also defined in Part 703.

### **6.2 Observed Sampling Conditions**

Sampling was successfully completed for four wet-weather events of varying magnitude at the seven locations described in Section 3. Sampling results for fecal coliform, settleable solids, and TSS were presented in Section 3 for both dry- and wet-weather events. The results for the field-measured parameters (temperature and DO) were presented in Section 4.

Geomean values for fecal coliform were used to determine the compliance of each sample location. Out of the five months of data, none of the monthly geomeans exceeded the fecal coliform WQS.

The settleable solids, TSS, and DO arithmetic mean values are all in compliance, with all of the individual sampling results also in compliance with WQS.

### **6.3 Conclusions**

The results of this investigation indicate that based on the five monthly geomeans, the seven sampling sites meet the NYS DEC Standard for fecal coliform. Based on the data provided and discussed herein, it can be concluded that the Rondout Creek does



**Rondout Creek  
Water Quality Assessment**

not exceed WQS promulgated by NYS DEC, defined in Part 703.4 under a range of weather conditions as measured during this study.



## **Appendix A**

**City of Kingston  
Combined Sewer Overflow  
Long Term Control Plan**

**Receiving Water Quality Sampling Plan  
For Post Construction Monitoring**



## **Receiving Water Quality Sampling Plan For Post Construction Monitoring**

City of Kingston  
Combined Sewer Overflow Long Term Control Plan

May 2014



## **Receiving Water Quality Sampling Plan For Post Construction Monitoring**

City of Kingston  
Combined Sewer Overflow  
Long Term Control Plan

Prepared for:  
City of Kingston

Prepared by:  
Malcolm Pirnie, Inc.  
855 Route 146  
Suite 210  
Clifton Park  
New York 12065  
Tel 518 250 7300  
Fax 518 250 7301

Our Ref.:  
05744023.0000

Date:  
May 2014

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**Acronyms and Abbreviations**

CSO	Combined Sewer Overflow
DO	Dissolved Oxygen
LTCP	Long-Term Control Plan
NYS DEC	New York State Department of Environmental Conservation
QA/QC	Quality Assurance / Quality Control
SPDES	State Pollution Discharge Elimination System
WWTF	Wastewater Treatment Facility
WQS	Water Quality Standard

## 1. Introduction

### 1.1 Project Background

The City of Kingston (City) has four combined sewer overflows (CSOs) that discharge to Rondout Creek (Figure 1). CSOs are point sources subject to National Pollutant Discharge Elimination System (NPDES) permit requirements including both technology-based and water quality based requirements of the Clean Water Act.

Post Construction Monitoring as described in this section is the method used to assess whether the steps taken to control discharges from the Combined Sewer System comply with the USEPA CSO Policy and, further, whether in complying with the Policy the Rondout Creek meets or is not precluded from meeting Water Quality Standards. This Post Construction Monitoring plan utilizes and updates the Monitoring and Modeling Plan (Appendix A) approved by NYS DEC in 2007 and used by the City of Kingston to collect the sampling data that is the basis for this CSO LTCP.

### 1.2 Intent

This Post Construction Receiving Water Quality Sampling Plan (Plan) describes the approach that will be taken to characterize the receiving water quality of the Rondout Creek where the City's CSOs discharge. The intent of the receiving water sampling effort will be to characterize the water quality during both dry and wet weather events, to assess the background pollution levels, to assess if Rondout Creek meets Water Quality Standards (WQS) and to assess impacts of implementing the City's Long Term Pollution Control Plan (LTCP).

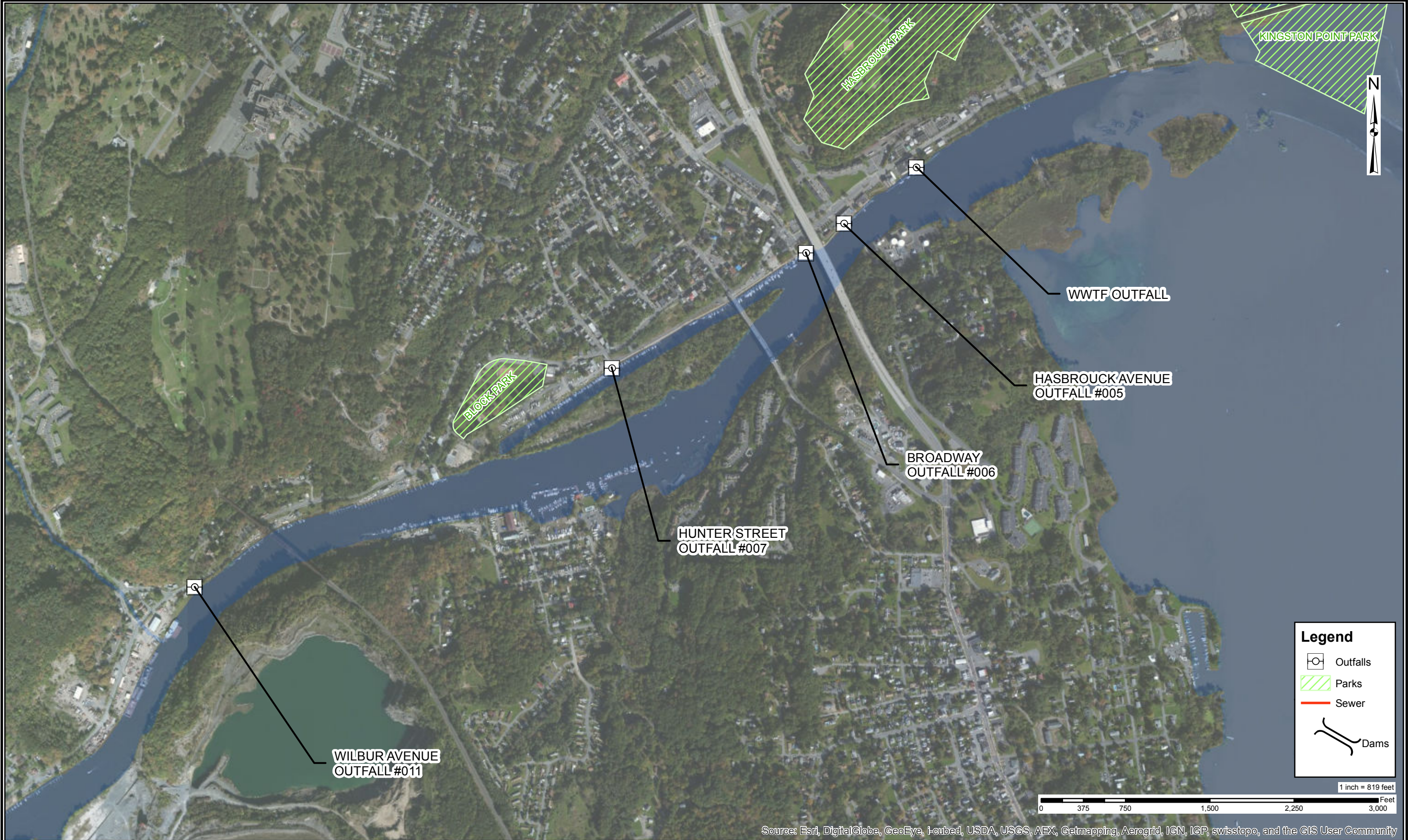
The discussion in this Plan includes:

- The water quality sampling equipment that will be used.
- The frequency and duration of water quality sampling.
- The determination for which storm events should be sampled.
- The water quality parameters to be analyzed.

### 1.3 Methodology and Scope

This Plan describes the locations, equipment, methodologies, and data management protocols that will be used by the City to gather water quality data for the receiving







waters and outlines responsibilities and procedures to be followed, as well as the timeframe for events.

A minimum of five (5) sampling events will be conducted per month at the original five (5) sampling points located upstream and downstream from the four CSO discharge sites, at the discharge of the WWTF. Two additional samples have been added to this sampling plan to address comments from the NYS DEC. One above of the Eddyville Dam, samples will be collected approximately 3.4 nautical miles upstream of the WWTF on Rondout Creek at the NYS DEC boat launch. The other sampling location is underneath the John T. Loughran Bridge (State Route 9W) in between the Broadway and Hasbrouck Avenue outfalls. Thus, a total of 7 discrete grab samples plus one duplicate will be collected per sampling event. The sampling events will be conducted weekly, with one wet-weather sampling event per month to be conducted within four to eight hours of a precipitation event commencing that would most likely result in an overflow. The four other monthly sampling events will be taken once a week during dry weather no earlier than 48-72 hours after rainfall events. During excessively wet months, the remaining three dry-weather events can be taken at the earliest 24 hours after rainfall events. Any limited set of samples will not necessarily be representative of average conditions so in order to provide more realistic comparison to the existing 30-day geometric mean (geomean) based water quality standards for fecal coliform concentration in the receiving stream, the City reserves the right to increase the sampling frequency and/or develop a simplified one-dimensional water quality model to approximate a geomean from 30 daily samples.

Grab samples collected will be collected at the water surface and will be analyzed for:

- Total suspended solids;
- Settleable solids; and
- Fecal coliform.

In addition to grab samples, field measurements and observations will be conducted at each sampling location. This will include:

- Dissolved oxygen (DO); and
- Floatables.

## **Receiving Water Quality Sampling Plan For Post Construction Monitoring**

City of Kingston  
Combined Sewer Overflow Long Term Control Plan

Sampling events will begin no earlier than May 1 and will conclude no later than October 31, and will include a minimum of three consecutive months of sampling events. Prior to any wet-weather events, permanent flow meters are to be installed at the four CSOs. The sampling locations in the Rondout Creek are shown on Figure 1 and are to be consistent with the locations used in 2007. The Senior Plant Operator for the Kingston Wastewater Treatment Facility will act as the City's Sampling Coordinator and will be the one coordinating and initiating sampling events.

## 2. Receiving Water Quality Sampling Program

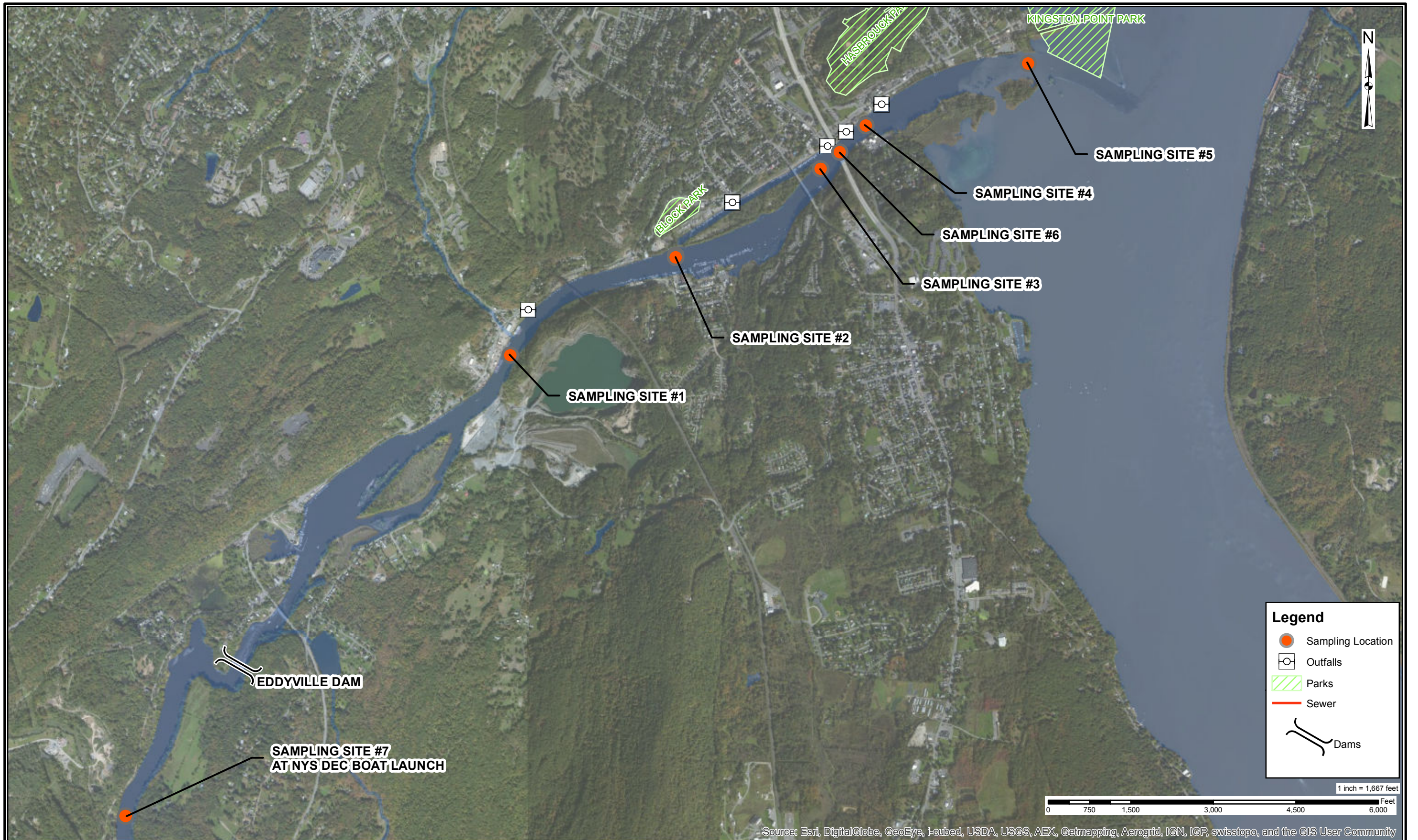
### 2.1 Water Quality Sampling Locations

Discrete samples of receiving water will be collected for laboratory analyses at 7 sample locations on Rondout Creek and the wastewater treatment plant discharge. The dry- and wet-weather water quality sampling locations are listed in Table 2-1 and shown on Figure 2. The figure is intended to present the general locations for this document. Final sampling locations will be identified and photographed with a detailed site description, along with the GPS-obtained coordinates prior to the first sampling event.

**Table 2.1 Receiving Water Body Sample Locations**

Sampling Location Identification Number	Sample Collection Location
#1	Middle of Rondout Creek approximately 250 yards upstream of the Wilbur Avenue Outfall
#2	Middle of Rondout Creek upstream of Block Park
#3	Middle of Rondout Creek approximately 150 yards upstream of bridge
#4	Middle of Rondout Creek approximately 200 yards downstream of bridge
#5	Middle of Rondout Creek upstream of Kingston Point Park
#6	Middle of Rondout Creek underneath the John T. Loughran Bridge
#7	Upstream of the Eddyville Dam at the NYS DEC boat launch







## **2.2 Sampling Equipment Specifications**

The water quality sampling program will use the following equipment:

- All receiving water body samples will be collected from a boat in the middle of Rondout Creek by a team of 2 to 3 field personnel with sampling bottles provided by the laboratories except for the samples collected upstream of the Eddyville Dam. This sample will be collected either by means of a canoe or other small boat or by wading in and collecting the sample.
- A Hach HQ40d meter with a LDO probe will be used to collect field parameters during sample collection at all sampling locations, and should be calibrated between each sampling event.
- A GPS locator will be used by each team to ensure consistent sampling locations for dry- and wet-weather events.
- Sampling Event Summary Sheets (see Attachment 1 in Appendix B) and pens will be required for each sampling team to record details of sample collection activities.
- Nitrile surgical gloves (disposable) will be worn by sampling personnel at all times during sampling.

## **2.3 Surface Water Sampling Procedures**

Surface water samples will be collected using the direct grab sampling technique outlined below. New, sterile, nitrile powder-free surgical gloves will be worn by sampling personnel at all times during sampling. Sampling gloves will be changed between sampling locations. Samples will be collected in the following order using the procedures outlined below:

1. Fecal coliform
2. Total suspended solids, settleable solids, and floatables
3. Dissolved Oxygen

Direct Grab Sampling Procedure:

- Face upstream and into the flow (if tide or surface currents exists face into the current).
- Orient the capped sample container with the opening toward the flow and in front of the sampler.
- Lower the capped sample container to a depth of approximately 6 to 10 inches below the water surface.
- Uncap the container underwater. Avoid touching the inside of the sample bottle and cap.
- Remove the capped sample container from the water, label in accordance with Section 2.7, and place in a cooler with ice.
- Note sample time in the Sampling Event Summary Sheet (Attachment 1).
- Complete the chain-of-custody form for that sample completely (see section 2.7)
- Repeat the sampling process with any remaining containers.

When laboratory sample collection is complete, lower the Hach HQ40d DO meter to the sampling depth and allow meter readings to stabilize. Once the meter has stabilized, record field parameter measurements on the Sampling Event Summary Sheet. Both the direct grab samples and the DO readings can be done simultaneously should sufficient personnel be available.

If the exterior of a sample bottle becomes grossly contaminated during sample collection due to highly turbid surface water, the exterior of the bottles will be rinsed with deionized water before placing the sample container in the cooler.

Fecal coliform must be delivered to the laboratory within five hours of sample collection to meet the six-hour holding time for these analyses and allow time for the Laboratory to filter samples.

## **2.4 Sample Collection Methodology**

The sampling methodology is similar for all the sampling locations including the list of parameters for which samples will be analyzed. The sections below detail sampling frequencies, durations, and methodologies for both dry- and wet-weather sampling. The City's Sampling Coordinator will coordinate necessary containers for each sampling event, with labels and with preservatives. The WWTF will be used for required preservation and packaging of samples after the sampling events.

#### 2.4.1 Dry-Weather Receiving Water Sampling

The goal of the dry-weather sampling is to collect samples four times per month over a minimum three-month period for a minimum of 12 dry-weather events. The sampling period will begin in no earlier than May 2014 and last through October 2014. For each dry-weather event, one analytical grab sample will be collected at each sampling position for a total of 7 samples per sampling event.

##### *2.4.1.1 Dry-Weather Laboratory Analysis Sample Collection*

Dry-weather sampling will be conducted in the morning, during business hours (7:00 A.M. –12:00 P.M.). All dry-weather samples will be collected as discrete samples by grab sampling. The grab sample will be poured or directly collected into the appropriate laboratory bottles in the field, ensuring each bottle is filled to provide enough sample volume for analysis of the required parameters. Laboratory analyses for the samples will be performed for fecal coliform. Immediately upon collection, all the samples will be sealed, labeled and packed in coolers with ice, ready for transport to the laboratory. This includes completing the chain-of-custody as soon as the sample has been collected. These samples will be taken to the WWTF at the completion of the sampling event for transport with the other samples collected. The City's Sampling Coordinator will arrange transportation of samples with the laboratories.

##### *2.4.1.2 Dry-Weather Field Measurements*

All sampling locations will be verified using a hand-held GPS unit. Dissolved oxygen will be measured at each sampling position using a handheld Hach HQ40d with a LDO probe (the DO probe must be calibrated before each sampling event). The dissolved oxygen measured at each sample location will be logged on field data sheets so that the project team is aware of the ambient conditions under which the water quality samples were collected.

#### 2.4.2 Wet-Weather Receiving Water Sampling

The wet-weather sampling will be performed for up to three storm events during the same period as the dry-weather sampling. The goal is to collect samples during storms that will likely initiate overflows. The wet-weather sampling events shall commence four to eight hours after the storm begins allowing for runoff to flow the system and initiate an overflow. A minimum of 24 discrete grab samples (7 samples

plus one duplicate per sampling event x minimum of 3 sampling events) will be taken during the receiving water wet-weather monitoring period.

#### *2.4.2.1 Wet-Weather Laboratory Analysis Sample Collection*

All wet-weather samples will be collected as discrete samples by grab sampling. The grab sample will be poured or collected directly into the appropriate laboratory bottles in the field, ensuring each bottle is filled to provide enough sample for analysis of the required parameters. Laboratory analyses for the samples will be performed for fecal coliform. Immediately upon sample collection at each location, the samples will be sealed, labeled, packed in coolers with ice, and the chain-of-custody completed. . The City will coordinate transportation of samples with the laboratories.

Laboratory personnel will initiate bacteriological testing of the samples collected within six hours of the samples being collected, due to the six-hour test holding time for fecal coliform.

#### *2.4.2.2 Wet-Weather Field Measurements*

All sampling locations will be verified using a hand-held GPS unit. Dissolved oxygen will be measured at each sampling position using a handheld Hach HQ40d with a LDO probe (the DO probe must be calibrated before each sampling event). The dissolved oxygen measured at each sample location will be logged on field data sheets so that the project team is aware of the ambient conditions under which the water quality samples were collected.

## **2.5 Field Documentation During Sampling**

Sampling Event Summary Sheets (see Attachment 1) will be completed during each sampling event by each sampling team. These will include entry spaces for:

- Time of sampling;
- Date of sampling;
- Initials of Recorder;
- Weather Conditions;
- Storm discharge flow / hydraulic conditions (standing water / moving flow, etc.);
- Dissolved Oxygen, and
- Physical Observations:
  - Presence of grease;
  - Presence and type of floatables;
  - Presence of atypical smells; and
  - Color.

Any other comments regarding additional observations deemed relevant should be recorded. The log will be completed by the sampler and given to the sampling leader upon completion of the sampling event.

## **2.6 Sample Labeling**

Each container for grab sampling of the receiving water will be labeled on its cover with the name of the sample location.

## **2.7 Sample Shipping and Chain-of-Custody**

This guideline presents a method for chain-of-custody procedures to track sample shipments (if required), to minimize loss or misidentification of samples, and to ensure that unauthorized persons do not tamper with collected samples. If sampling coolers are not shipped sampling crew should maintain custody or keep samples secured at all times prior to delivery to the laboratory.

1. Fill out the Chain-of-Custody form completely (see Attachment 2) with all relevant information (the white original goes with the samples and should be placed in a "Ziploc" plastic bag and taped inside the sample cooler lid; the yellow copy should be retained by the sampler).

2. Mark liquid volume levels on sample bottles with grease pencil.
3. Tape drain shut and wrap cooler completely with strapping tape to secure lid.
4. Place lab address on top of cooler. To protect the shipping coolers against tampering during shipment, the cooler lid will be taped to the cooler body. A chain-of-custody seal will be placed over the tape. A broken seal will indicate that the contents may have been tampered with.

## **2.8 Submission of Samples to Laboratory**

The laboratory to be used for water quality analysis will be the City of Kingston's Water Department Lab. The following key points regarding sample submission will be addressed by all parties:

- All samples will be submitted to the laboratories in laboratory provided bottles. For discrete samples collected at all sampling locations, the Chain-of-Custodies will be completed immediately upon collection of the samples by the field team.
- All coliform samples must arrive at the laboratory for analysis within 5 hours of the sample collection time, with regard to the 6 hour holding time. All other samples must be submitted for analysis within 12 hours of collection.
- All samples must be packed in coolers with ice after collection.
- The City Sampling Coordinator is responsible for coordinating pick-up or delivery of all samples with the laboratory. The field team is responsible for transporting all samples to the WWTF, and submitting all samples in appropriate containers with appropriate labeling and Chains-of-Custody to the City's Sampling Coordinator immediately after the event.
- The City is responsible for system-wide record keeping and for directing the laboratories in sample analysis.

Section 2.8 contains the Standard Procedure for Sample Shipping that will be followed by the City, and Attachment 2 presents an example Chain-of-Custody form.

## **2.9 Equipment Calibration and Maintenance Protocols**

All equipment will be programmed to the clocks of cellular telephones of the field personnel. As part of the pre-sampling staging before each dry- or wet-weather sampling event, the handheld Hach HQ40d meter with a LDO probe shall be calibrated following manufacturer's recommendations for the DO probe. This will provide for

more accurate results, and is recommended by the manufacturer as standard operating procedure.



### **3. Determination of When to Sample**

Each week teleconferences will be conducted between the City and ARCADIS. The purpose of these weekly teleconferences is to allow the Sampling Coordinator opportunities to consult with ARCADIS on possible windows for positive dry- and wet-weather sampling events for the week. Ultimately, the Sampling Coordinator will determine to sample or not to sample.

#### **3.1 Dry-Weather Sampling**

Dry-weather sampling will occur on the third consecutive dry day, four times per month, for three consecutive months during the period from May 2014 to October 2014. If a dry-weather sampling event is completed, and a rainfall event does not occur on the following day, another dry-weather sampling event can be completed as early as the next day if required. Dry-weather sampling events will generally occur during business hours, Monday through Friday. Weekend work may be required if the appropriate number of events were not able to be obtained during business hours. The initiation and termination of dry-weather sampling will be determined by the City's Sampling Coordinator. The Sampling Coordinator will specify the time at which dry-weather sampling is to commence. The sampling event will commence at the time specified, provided that a rain event does not occur between notification to mobilize and the sampling event commencement.

#### **3.2 Wet-Weather Sampling**

A minimum of three wet-weather events will be sampled at all receiving water body locations identified in Table 2-1. The goal for the sampled storms will be to have a rainfall volume of at least 0.5 inches +/-50% (0.25 to 0.75 inches) and at least one CSO activate.

There must be a minimum of 72 hours of antecedent dry weather prior to a storm event for the event to be sampled. Sampling will be conducted within four to eight hours of a precipitation event commencing that would most likely result in an overflow.

## 4. Laboratory Analysis

### 4.1 Designated Laboratory

The laboratory to which the samples will be submitted has been specified by the City as Smith Environmental Laboratory, Inc. in Hyde Park, NY.

### 4.2 Analytical Methods

Table 4-1 details the parameters that will be sampled for and the analytical methods. The selected lab should provide sufficient range of sample dilutions to accommodate for a potential range of fecal coliform counts from 10 to 1,000,000.

**Table 4-1 Laboratory Analysis Detail**

Parameter	Method	Holding Time
Fecal Coliform	Membrane Filtration – Standard Method 9222D	6 hours

Notes: Estimated/anticipated detection limits only – to be confirmed by discussion with selected laboratories.

### 4.3 Laboratory Quality Assurance / Quality Control (QA/QC)

Quality control sample analyses that will be performed during this project to document the acceptability of the data will include:

- Equipment Blanks
  - Duplicate Samples
  - Laboratory Blanks
- 
- Equipment blanks (rinsate blanks) are defined as samples that are generated by rinsing representative sampling equipment with laboratory analyte-free water and then analyzing the rinsate in a similar fashion as regular samples. Equipment blanks are used to assess the cleanliness of equipment used for sampling and the adherence to equipment cleaning practices. Equipment blanks will be collected from sampling equipment immediately before initiation of each sampling event (dry or wet weather). Each sampling crew that mobilizes to perform sampling for a given event will collect equipment blanks from one sampling jar and from one grab sampling device. Each crew will use laboratory analyte-free water to prepare equipment blanks by rinsing one

sampling jar, and one grab sampling device, individually with enough volume to take samples of each of the parameters of concern included in this project. Thus, each sampling crew will have two sets of equipment blank samples: one representative of a sampling jar and the other representative of a grab sampling device. All equipment blanks will be acquired from sampling equipment before sampling crews depart to perform sampling.

- Duplicates samples are defined as a second, or duplicate, set of samples that are obtained from the study matrix which are prepared and analyzed alongside regular samples. Duplicate samples are used to assess the precision of the entire sampling activity. Collecting duplicate samples translates to the collection and additional large grab sample from a given location. For the additional sampling event, the sampling event leader will designate one of the sampling crews to obtain an additional sample volume from their sampling location. The designated crew will collect a duplicate sample. For each wet-weather sampling event, one duplicate sample will be collected for every 10 samples collected in the field by each field team during the event. The sampling teams must ensure they take extra sets of laboratory sample bottles into the field for collection of these duplicate samples during each event.
- Laboratory blanks are used to assess the accuracy of laboratory analytical procedures. Laboratory blanks will be prepared by contract laboratory personnel in accordance with established QA/QC procedures. Guidelines for laboratory blank preparation and analytical results reporting by contract laboratory will be determined based on correspondence and contract development between the sampling contractor and the contract laboratory. A copy of the contract should be submitted to Malcolm Pirnie the Water Division of ARCADIS (ARCADIS) for review prior to program initiation.

The QA/QC plan will be ascertained through the following actions:

- All sampling holding times shall be in full compliance with the requirements set forth in applicable EPA-approved methods published in “*Standard Methods for the Examination of Water and Wastewater*”;
- Chains of custody reports shall be completed for all samples and field blanks;
- All analytical work, with the exception of the field measured parameters (Dissolved Oxygen and floatables) shall be performed by a contract laboratory having a New York State Environmental Laboratory Accreditation Program

(ELAP) certification (in accordance with the National Environmental Laboratory Accreditation Conference (NELAC) Institute);and

- The contract laboratory shall provide a copy of its approved standard operating procedures and protocols for analytical work and QA/QC procedures for each parameter or parameter group in full compliance with applicable EPA-approved methods published in "*Standard Methods for the Examination of Water and Wastewater*".

## **5. Field Team Quality Assurance Procedures**

Several quality assurance procedures will be applied to the field team activities. These procedures are presented below.

- All sampling personnel shall be familiar with the goals and objectives of this sampling program, sampling locations, equipment, and protocol;
- All sampling holding times shall be in full compliance with the requirements set forth in applicable EPA-approved methods published in “*Standard Methods for the Examination of Water and Wastewater*”;
- Chains of custody reports shall be completed for all samples and field blanks; and
- All equipment to be used for the field measurements shall be in good working order and properly calibrated as per manufacturer’s recommendations.

### **5.1 Team Training**

Team training provides an important quality assurance mechanism for this water quality sampling program. The first dry-weather sampling event will be organized prior to any wet-weather sampling, and will be used as a formal wet-weather sampling test run and workshop. This will ensure that field personnel are comfortable with the sampling procedures. The training will be conducted by ARCADIS, and supported by the City. All members of the sampling teams will participate in the workshop. Training topics will include:

- Health and Safety
- Sampling Protocols
- Coordination

After the samples have been collected, the field team will return to the WWTF and samples will be prepared for the laboratory. This will test the arrangement of the staging area, chain of-custody protocols, and the laboratory delivery process.

## **Appendix A: Attachments**

**Attachment 1:  
Sampling Event Summary Sheets**



# Attachment 1 - Sampling Event Summary Sheet

Initials: \_\_\_\_\_

Date: \_\_\_\_\_

Page \_\_\_\_ of \_\_\_\_

Sampling Team: \_\_\_\_\_

Weather: \_\_\_\_\_

Temperature: \_\_\_\_\_

Direction of Flow: \_\_\_\_\_

Sampling Location	Time	Field Parameter	Physical Observations	Comments
		DO	Grease	
		temperature	Floatables	
			Odors	
		DO	Grease	
		temperature	Floatables	
			Odors	
		DO	Grease	
		temperature	Floatables	
			Odors	
		DO	Grease	
		temperature	Floatables	
			Odors	
		DO	Grease	
		temperature	Floatables	
			Odors	
		DO	Grease	
		temperature	Floatables	
			Odors	
		DO	Grease	
		temperature	Floatables	
			Odors	
		DO	Grease	
		temperature	Floatables	
			Odors	

**Attachment 2:  
Sample Chain-of-Custody Form**



The Water Division of ARCADIS

# CHAIN OF CUSTODY RECORD

518-250-7300  
fax: 518-250-7300

MALCOLM PIRNIE, INC.  
855 ROUTE 146, SUITE 210  
CLIFTON PARK, NEW YORK 12065  
<http://www.arcaid-us.com>

CLIENT: \_\_\_\_\_  
PROJECT: \_\_\_\_\_  
PROJECT NUMBER: \_\_\_\_\_  
PROJECT MANAGER: \_\_\_\_\_  
LABORATORY: \_\_\_\_\_  
LABORATORY CONTACT: \_\_\_\_\_

## SPECIAL INSTRUCTIONS:

LAB ID	SAMPLE ID/ DESCRIPTION	DATE	TIME	MATRIX	GRAB/ COMPOSITE	No. of Cont.	ANALYSIS REQUIRED	NOTES / PRESERVATIVE

<b>Matrix Identification:</b>	<b>SL - SLUDGE</b>	<b>SW - SURFACE WATER</b>	<b>DS - DRUM SOLID</b>
<b>S - SOIL</b>	<b>DW - DRINKING WATER</b>	<b>L - LEACHATE</b>	<b>DL - DRUM LIQUIDS</b>
<b>SE - SEDIMENT</b>	<b>GW - GROUND WATER</b>	<b>A - AIR</b>	<b>X - OTHER</b>
<b>SO - SOLID</b>	<b>O - OIL</b>	<b>WI - WIPE</b>	<b>WW - WASTE WATER</b>

LAB USE ONLY

SAMPLED BY (SIGNATURE):	DATE/TIME:	RECEIVED BY (SIGNATURE):	DATE/TIME:
RELINQUISHED BY (SIGNATURE):	DATE/TIME:	RECEIVED BY (SIGNATURE):	DATE/TIME:
RELINQUISHED BY (SIGNATURE):	DATE/TIME:	RECEIVED BY (SIGNATURE):	DATE/TIME:
METHOD OF SHIPMENT:	DATE/TIME:	LAB USE ONLY:	
RECEIVED AT LABORATORY:	DATE/TIME:		

## **Appendix B: Sewer System Characterization, Modeling and Monitoring Plan**



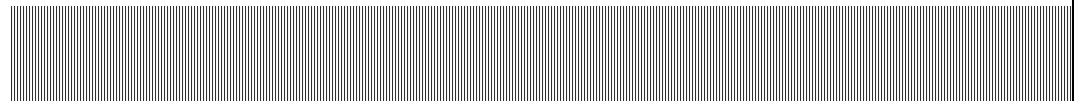
## **City of Kingston**

420 Broadway • Kingston, New York 12401

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# **Sewer System Characterization, Monitoring and Modeling Plan**

July 2007



Report Prepared By:

### **Malcolm Pirnie, Inc.**

43 British American Boulevard  
Latham, New York 12110  
(518) 782-2100

5744-004

**MALCOLM  
PIRNIÉ**

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- B. Preliminary Receiving Body Water Quality Monitoring Results
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# 1. Introduction

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## 1.1. Background Information

The City of Kingston maintains and operates a combined sewage system (CSS) under the New York State Pollution Discharge Elimination System (SPDES) Permit Number NY 002 9351. The City is located in the Hudson River Valley of New York State approximately 50 miles south of Albany and occupies approximately 7.4 square miles of land. Kingston's sanitary sewage collection system consists of approximately 80 miles of pipe ranging in size from 4 to 60 inches in diameter and a Waste Water Treatment Facility (WWTF) that has a permitted rolling annual average treatment capacity of 6.8 million gallons per day (MGD).

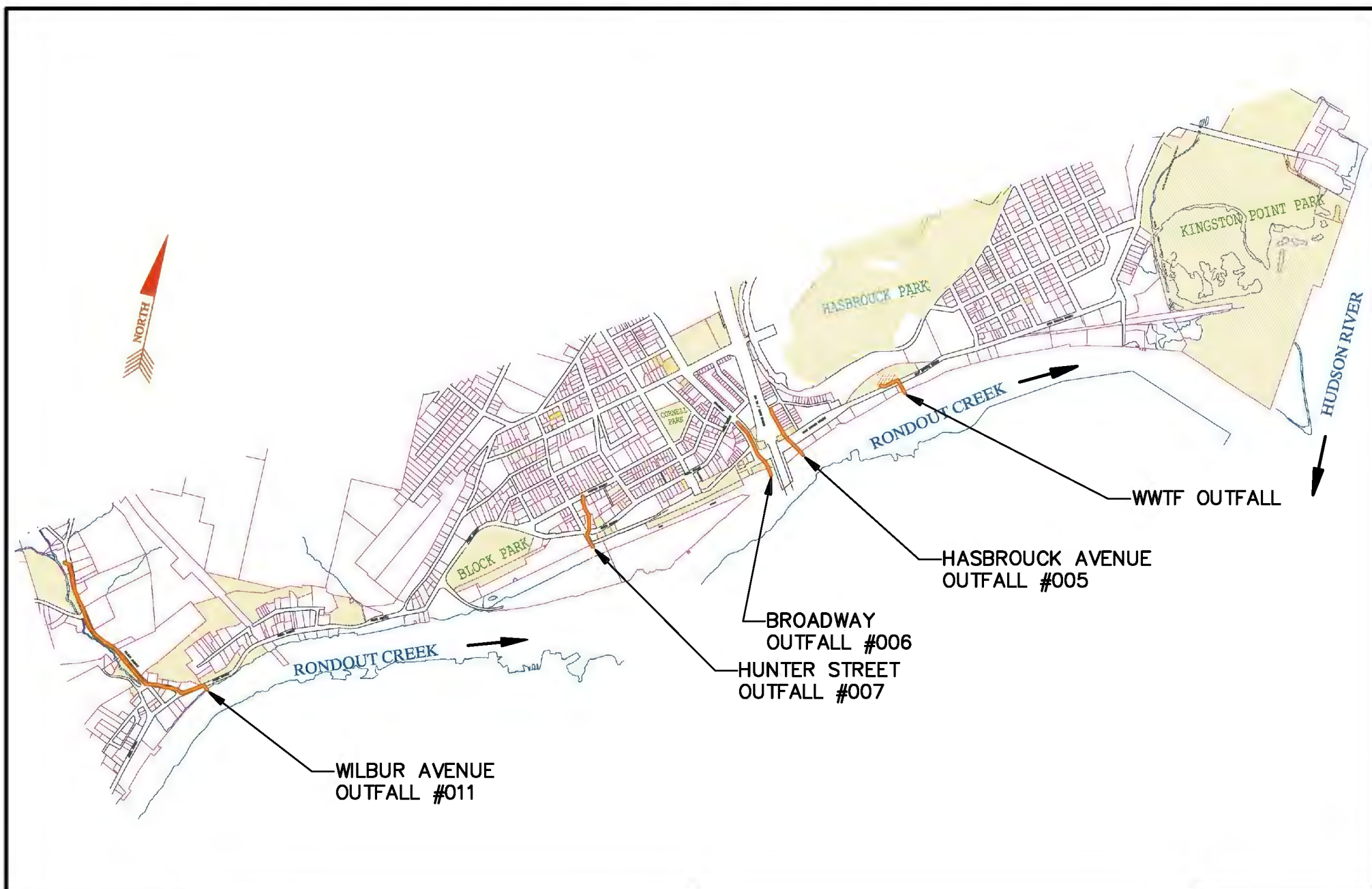
The City's current SPDES permit includes the outfall for the WWTF and four Combined Sewer Overflows (CSOs) that discharge to Rondout Creek, a tributary to the Hudson River. Approximately 30 percent of the 80 miles of City sewers are combined. Figure 1-1 shows a map of the City and the four CSOs.

Prior to 1992, the City was permitted for 14 CSO outfalls to Rondout Creek, which are described in their *Combined Sewer Overflow Plan*, as dated last revised August 1992. The City has expended considerable resources to eliminate CSOs by either separating the combined systems that were contributory to them, diverting flows to alternate sewers, and by allowing surcharging of the collection system in order to maximize the capacity of the system. A copy of the current SPDES permit is included in Appendix A.

## 1.2. Purpose

The purpose of this report is to develop a plan for characterization of the City's combined sewer system. The characterization plan is required for the City's SPDES permit Best Management Practice (BMP) 14 as administered by the New York State Department of Environmental Conservation (DEC), which requires compliance to the United States Environmental Protection Agency (EPA) *Combined Sewer Overflows Guidance for Nine Minimum Controls*, 1995, Chapter 10, and is required for the development of a Long-Term Control Plan (LTCP).

The overall goal of a CSS Characterization, Monitoring and Modeling Plan (Plan) is to develop an understanding of the CSS and be able define the impacts of CSOs on the receiving body in order to implement cost-effective controls to reduce the water quality



impacts from CSOs and provide compliance with the Clean Water Act (CWA) requirements, including attainment of water quality standards.

### **1.3. Scope of Work**

The scope of this Plan is to provide the City with the following:

- A plan for monitoring the frequency, duration, and volume of overflows at the four CSO structures;
- A plan to complete collection system mapping;
- A plan for monitoring the water quality of the Rondout Creek during both dry and wet weather events; and
- A plan to characterize the pollutant loadings from the CSOs to the Rondout Creek and determine any negative impacts associated with the overflows.

## 2. Receiving Water Conditions Assessment

---

### 2.1. Existing Conditions

The City is located near the northwest corner of the confluence of Rondout Creek flowing from the west and the Hudson River flowing from the north. At this point, both rivers are influenced by the tidal effects of the Atlantic Ocean. This reach of the Rondout Creek is classified by the DEC as a Class “C” water body. The section of the Hudson River into which the Rondout Creek flows at the southeast corner of the City is a Class “A” water body.

The WWTF discharges to Rondout Creek approximately 3,000 feet upstream of the confluence with the Hudson River. The tidal effects and the proximity of the Hudson River would require significant efforts to accurately develop a water quality model of this reach, if a model was required to be developed.

The City has conducted some sampling and analysis of the receiving water to determine the dry and wet weather water quality conditions of the Rondout Creek. Sampling took place between May 10, 2006 and September 15, 2006. Several grab samples were analyzed in 2006 from the diversion structures of the CSOs and at various points along Rondout Creek. These sample results are included in Appendix B. This sampling program is limited and does not provide sufficient data to determine the geometric mean of fecal coliform levels in Rondout Creek. This data only provides a rudimentary understanding of the effects that overflow events can have on the water quality of the Creek.

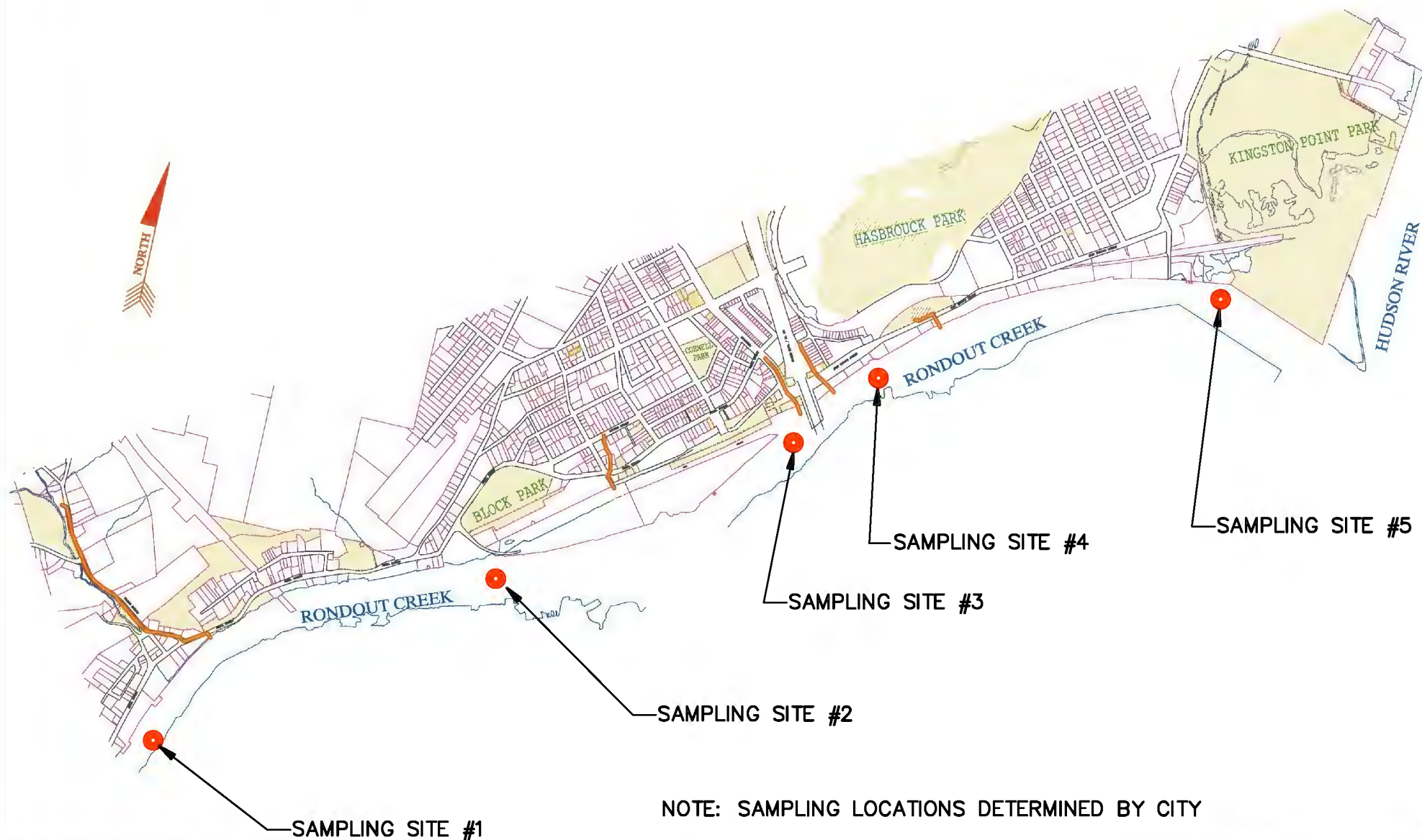
### 2.2. Receiving Water Monitoring Plan

#### 2.2.1. Intent

As part of the requirements to implement a CSS Characterization, Monitoring and Modeling Plan, the City will collect grab samples of the Rondout Creek. The intent of the sampling effort will be to characterize the existing water quality during both dry and wet weather events.

#### 2.2.2. Methodology and Scope

Five sampling events will be conducted per month at the five sampling points located upstream and downstream from the four CSO discharge sites and the WWTF (see Figure 2-1 for sample site locations). The sampling events will be conducted weekly, with one additional sampling event to be conducted within two to four hours of a





precipitation event commencing that would most likely result in an overflow. The four monthly samples will be taken once a week during dry weather no earlier than 72 hours after rainfall events. During excessively wet months, the remaining three samples can be taken at least 24 hours after rainfall events. Grab samples collected will be collected at the water surface and will be analyzed for:

- Total suspended solids.
- Settleable solids.
- Fecal coliform.
- Dissolved oxygen (DO).
- Floatables.

Sampling events will commence in August and continue for a minimum of 15 weeks (or three months). Refer to Section 5, Schedule. The sampling locations in the Rondout Creek are shown on Figure 2-1.

### **2.3. Quality Assurance/Quality Control Plan**

The water quality sampling Quality Assurance/Quality Control (QA/QC) Plan will be ascertained through the following actions:

- All sampling personnel shall be familiar with the goals and objectives of this sampling program, sampling locations, equipment and protocol.
- All sampling holding times shall be in full compliance with the requirements set forth in applicable EPA-approved methods published in “*Standard Methods for the Examination of Water and Wastewater*”.
- Chains of custody reports shall be completed for all samples and field blanks.
- All analytical work, with the exception of the field measured parameters (Dissolved Oxygen and floatables) shall be performed by a contract laboratory having a New York State Environmental Laboratory Accreditation Program (ELAP) certification (in accordance with the National Environmental Laboratory Accreditation Conference (NELAC) Institute).
- The contract laboratory shall provide a copy of its approved standard operating procedures and protocols for analytical work and QA/QC procedures for each parameter or parameter group in full compliance with applicable EPA-approved methods published in “*Standard Methods for the Examination of Water and Wastewater*”.
- All equipment to be used for the field measurements shall be in good working order and properly calibrated as per manufacturer’s recommendations.



### **2.3.1. Field Work**

The field work QA/QC program will be comprised of the following components:

- Equipment blanks.
- Duplicate samples.
- Laboratory blanks.

#### **2.3.1.1. Equipment Blanks**

Equipment blanks (rinsate blanks) are defined as samples that are generated by rinsing representative sampling equipment with laboratory analyte-free water and then analyzing the rinsate in a similar fashion as regular samples. Equipment blanks are used to assess the cleanliness of equipment used for sampling and the adherence to equipment cleaning practices. Equipment blanks will be collected from sampling equipment immediately before initiation of each sampling event (dry or wet weather). Each sampling crew that mobilizes to perform sampling for a given event will collect equipment blanks from one sampling jar and from one grab sampling device. Each crew will use laboratory analyte-free water to prepare equipment blanks by rinsing one sampling jar, and one grab sampling device, individually with enough volume to take samples of each of the parameters of concern included in this project. Thus, each sampling crew will have two sets of equipment blank samples: one representative of a sampling jar and the other representative of a grab sampling device. All equipment blanks will be acquired from sampling equipment before sampling crews depart to perform sampling.

#### **2.3.1.2. Duplicate Samples**

Duplicate samples are defined as a second, or duplicate, set of samples that are obtained from the study matrix which are prepared and analyzed alongside regular samples. Duplicate samples are used to assess the precision of the entire sampling activity. Collecting duplicate samples translates to the collection of an additional large grab sample from a given location. For the additional sampling event, the sampling event leader will designate one of the sampling crews to obtain an additional sample volume from their sampling location. The designated crew will collect a duplicate sample.

#### **2.3.1.3. Laboratory Blanks**

Laboratory blanks are defined as samples of laboratory analyte-free water that are put through similar preparatory and analytical procedures as regular samples. Laboratory blanks are used to assess the accuracy of laboratory analytical procedures. Laboratory blanks will be prepared by contract laboratory personnel in accordance with established QA/QC procedures. Guidelines for laboratory blank preparation and analytical results reporting by contract laboratory will be determined based on correspondence and contract development between the sampling contractor and the contract laboratory. A copy of the contract should be submitted to Malcolm Pirnie for review prior to program initiation.

#### **2.3.1.4. Field Documentation During Sampling**

Sampling personnel will complete a sample log sheet for each sampling location during the additional sampling event. The log will include documentation of the following during sampling at each location:

- Time of sampling.
- Date of sampling.
- Weather conditions.
- Storm discharge flow/hydraulic conditions (standing water/moving flow, etc.).
- DO.
- Physical Observations:
  - Presence of grease.
  - Presence of floatables.
  - Presence of atypical smells.
  - Color.

Any other comments regarding additional observations deemed relevant should be recorded. The log will be completed by the sampler and given to the sampling leader upon completion of the sampling event.

Each container for grab sampling of the receiving water will be labeled on its cover with the name of the sample location.

## 3. Combined Sewer System Mapping, Database and Digitizing

---

### 3.1. Existing Conditions

The City has the majority of the combined sewer system mapped on record drawings that indicate the location of manholes, inlets, catch basins, pump stations, forcemains, sewers, and overflow structures in AutoCAD format. There is little data available pertaining to the inverts of the manholes and sewers that would be utilized for CSS modeling.

### 3.2. Intent

The intent of the CSS mapping, database, and digitizing task is to develop a single reference for the City in a geographic information system database. The City does not intend to perform a geographic positioning system (GPS) survey of its CSS; however, the City intends to digitize the existing mapping and develop a skeleton database structure that can be populated with data at a later date if funding becomes available.

### 3.3. Methodology

The City will solicit funding from various sources for archiving records and developing a GIS of its CSS, sanitary sewers, and storm sewers. The existing maps will be digitized and a database developed that will contain specific fields for population at a later date by City personnel.

## 4. Combined Sewer System Monitoring

---

### 4.1. Intent

It is the intent of the City of Kingston to replace metering equipment in the overflow chambers located at two of the existing CSOs, place an insert area-velocity meter down stream of the diversion chamber at Hunter Street, and place a level transducer in the equalization tank of the Wilber Avenue. These meters will allow the City to collect a minimum of one year of data pertaining to the frequency, duration, and volume of overflows throughout the City.

### 4.2. Methodology

One of the conditions to be met for compliance with the Ninth Minimum Control is the monitoring of the frequency of the overflow events at each CSO, where feasible. Since there are only four CSOs, monitoring of overflow occurrences at each CSO should be within the ability of the City and its staff.

There are many different methods available to monitor the frequency of overflow events. The simplest method is block testing. Block testing is the placement of a tethered block on a CSO control weir. When the block has been pushed off of the weir by an overflow, the event can be recorded as an overflow. The block can then be pulled back into place by the tether from the manhole access without entering the confined space of the outflow structure. The shortcomings of the block method include its reliance on staff to visit the outfall after each rainfall event and accessibility of the overflow weir from the access point. A more complex, yet less user-dependent method for overflow frequency monitoring is automatic monitoring. Electronic equipment can be installed in the overflow channels to record the level of flow in the channels and the flow rate, if required. The shortcomings of the automatic method include accessibility to a reliable power source and equipment failure problems.

For the purposes of this study, the City will install automatic metering equipment and data loggers at each of the overflows in order to accurately assess the frequency, duration, and volume of the overflow discharges as discussed herein.

### 4.3. Outfall Conditions

The condition of each outfall was examined to determine which overflow frequency monitoring method would be the most efficient and cost effective for each overflow chamber. Electronic equipment will be installed at all outfalls to automatically record

overflow data. All data will be recorded at each site and handheld equipment will be used that can collect the data, which can then be transferred to a desktop computer for compilation and examination.

#### **4.3.1. Outfall #006 (Broadway)**

The Broadway outfall consists of two separate facilities. The first, a diversion chamber, lies at the intersection of Abeel Street and Broadway and contains the overflow weir leading to the screening facility. From the diversion chamber, the overflow sewer is a 60-inch diameter reinforced concrete pipe (RCP) that travels down Broadway to the bar screen facility, which lies just over 100 feet from Rondout Creek at the intersection of West Strand Street and Broadway. The bar screen facility for the Broadway outfall includes a below-grade channel, which contains two mechanical bar screens. The screens collect large debris and floatables from the overflow stream before it is discharged to the Rondout Creek.

The overflow weir for the Broadway outfall is not readily accessible from the street manhole access, which makes block testing difficult without routine inspection and confined space entries. Therefore, the City has elected to collect flow frequency data at this outfall by the future installation of an area-velocity meter in the sewer entering the screening building. The benefit for this method of flow frequency data collection is that flow rate, duration of the overflow, and volume of the overflow are measured. The system will be provided with a data logger for maintaining a history of overflow data and will be downloaded by City personnel once per week. This data can then be used in preparation for the LTCP.

#### **4.3.2. Outfall #005 (Hasbrouck Avenue)**

The Hasbrouck Avenue outfall consists of a screening facility, similar to the Broadway outfall, except that the overflow weir at Hasbrouck is just upstream of the screening building at the dead-end of Catherine Street and contains a mechanical regulator just downstream of the sewer exiting the diversion chamber. The mechanical regulator maintains a maximum flow that can be discharged to the WWTF so that the WWTF is not deluged under wet weather conditions. As the regulator closes, combined sewage is backed up into the sewer, eventually overflowing the weir to the screening building. A 60-inch diameter RCP exits the screening building and discharges to the Rondout Creek.

The overflow weir for the Hasbrouck Avenue outfall is not readily accessible from the street manhole accesses, which makes block testing difficult. The Hasbrouck Avenue outfall screening facility is very similar to the Broadway screening facility. Therefore, the best method for the City to collect data at this outfall is to install an area-velocity meter in the sewer entering the screening facility. The benefit for this method of flow frequency data collection is that flow rate, duration of the overflow, and volume of the overflow are measured. The system will be provided with a data logger for maintaining a history of

overflow data and will be downloaded by City personnel once per week. This data can then be used in preparation for the LTCP.

#### **4.3.3. Outfall #011 (Wilbur Avenue)**

The Wilbur Avenue outfall consists of three separate structures installed approximately halfway between the Wilbur Avenue intersections with Wall Street and Chapel Street. The three structures from upstream to downstream of this outfall are: an equalization tank, a pump station, and a screening building. Flow that enters the equalization tank of the Wilbur Avenue pump station can be pumped to the City's WWTF. The equalization tank contains a high level overflow that discharges to a 24-inch diameter overflow sewer. When the flow exceeds the capacity of the pump station, it is directed to a screening facility that contains two automatic bar screens. The Wilbur Avenue screening facility is similar to those located at the Broadway and Hasbrouck CSOs.

To keep data consistent with the data collected from the other outfalls, a level sensor will be installed at the Wilbur Avenue overflow weir. The data logger used to collect data at the other outfalls will also be able to be used at Wilbur Avenue. This data collection method at Wilbur Avenue will only record water level over the weir. Calculations can be performed on the data to approximate flow.

#### **4.3.4. Outfall #007 (Hunter Street)**

The Hunter Street outfall consists of a diversion chamber with an overflow weir leading to a 36-inch diameter brick sewer that discharges to the Rondout Creek. The diversion chamber is located on Hunter Street, approximately 100 feet west of its intersection with Ravine Street.

The overflow weir for this diversion structure is a wood block structure that lies beneath a small concrete slab which acts as a step for access from the manhole. Therefore, it will not be possible to place a tethered block on the overflow weir without entering the chamber following confined spaced entry protocol. Therefore, the City will install a battery powered level sensor and data logger that will record frequency of overflow occurrences. The recording device will be attached to the underside of the chamber, immediately adjacent to the manhole access so that entry into the chamber will not be necessary for data retrieval. Data will be downloaded on a weekly basis and after each precipitation event greater than 1/2 inch.

### **4.4. Outfall Inspections**

Weekly inspection of the outfalls and recording equipment will be conducted to ascertain that the equipment is operating properly and to collect data.

For all outfalls, recorded overflow events will be correlated to rainfall data. The City has a rainfall gauge at the WWTF on East Strand Street. The rainfall gauge will be calibrated



to verify its accuracy prior to commencement of the monitoring program. The rainfall gauge results can be used to determine the types of storms that result in overflows at each outfall.

All applicable safety precautions will be followed for inspection of any outfalls to be accessed from manholes. Safety precautions include, but are not limited to:

- Deployment of safety cones.
- Blocking traffic.
- Confined space entry procedures.

#### **4.5. Rainfall Data**

The rainfall gauge at the WWTF will be inspected every day to see if any measurable rainfall has occurred in the last 24 hours. If so, the rainfall amount, date, and approximate duration will be recorded. During periods of dry weather, outfalls will be inspected at least once per week.

## 5. Combined Sewer System Characterization

---

### 5.1. Intent

The collected flow and precipitation monitoring and river water quality data will be reviewed to estimate the frequency and volume of CSO activations and assess the impacts of CSO pollutant loadings on applicable water quality parameters of Rondout Creek.

### 5.2. CSO Activation Evaluations

Once the sufficient CSO discharge flow monitoring data is collected, the CSO flow monitoring and WWTF recorded data can be used to evaluate, under current conditions, the total volume treated at the WWTF, CSO volume, percent capture and frequency of overflow activations for a typical year of precipitation. These evaluations can establish an assessment of the existing system compliance status with the USEPA CSO Control Policy.

Longer term CSO discharge monitoring data (up to and over a year of monitoring) is typically required for such evaluations without developing a collection system model. The precipitation statistics for the monitoring period are compared to the long-term historical precipitation averages to determine if the monitoring conditions can be considered typical. If necessary, adjustments to CSO discharge data can be made to normalize the data to typical conditions.

The purpose of evaluating the CSO and precipitation is to estimate the annual percent capture and total number of overflow activations. Eighty-five percent capture of annual wet weather flows and 4 to 6 overflow activations per year are the two presumptive approach criteria by which compliance with the CSO Control Policy is first assessed. Evaluating existing conditions for these two parameters would establish the starting point from which CSO control alternatives need to be sized to bring the system into compliance with the CSO Control Policy.

### 5.3. Water Quality Evaluations

The data will be reviewed for trends during dry and wet weather conditions. Figures and tables will be developed to illustrate the changes in water quality parameters tested during the monitoring period. Dry weather and wet weather baseline conditions will also

be summarized for use in preliminarily evaluating water quality in comparison to the receiving stream water quality standards.

Estimated pollutant loadings from each CSO will be developed by utilizing the flow frequency, duration and volume data developed through the CSS monitoring discussed in Section 4. Typical pollutant values for CSOs presented in the Report to Congress, *Impacts and Control of CSOs and SSOs*, dated August 2004, will be utilized for the estimation of the pollutant loadings to the receiving stream.

Further evaluations will be performed to estimate whether the CSO discharges from the City result in exceeding or preclude from the attainment of the receiving stream water quality standards. There are a number of approximation methods that could be completed to support the water quality evaluations necessary for LTCP planning. The evaluations necessary for planning purposes include estimating the potential impact of CSO discharges on the receiving stream and determining the benefits of various LTCP alternatives in terms of improving water quality. The three most common approximation methods (typically used for estimating the impact from CSOs on fecal coliform concentrations in the receiving streams) are briefly discussed below.

#### **5.3.1. First Approximation Method – End of Pipe Evaluation**

A first approximation would involve an end of pipe evaluation using output from a continuous SWMM model simulation or existing CSO activation data. The assumption with an end of pipe evaluation is that any CSO discharge would cause bacteria concentrations greater than 200 MPN/100ml at the end of the discharge pipe since a CSO discharge typically has bacteria concentrations ranging from 105 to 107 MPN/100ml. This approach would not include analysis of the transport, fate, or decay of pathogens in the receiving stream.

Estimates of annual CSO occurrences are the basis for the first approximation method. These occurrences are typically obtained from SWMM model simulations or actual monitoring data from the typical year and include total annual CSO volume, hours of activation per year, maximum discharge rates and CSO discharge frequencies. Concentrations could also be applied to the CSO volume to estimate loadings of contaminants.

The first approximation method is especially applicable for pathogens, given that with current bacteriological water quality standards an exceedance is effectively triggered with any CSO occurrence. The first approximation is not as applicable for assessing attainment of water quality standards for other parameters (e.g., dissolved oxygen).

### **5.3.2. Second Approximation Method – Dilution Evaluation**

The second approximation method incorporates a concentration and dilution evaluation and is typically performed after the first approximation. All of the evaluations included in the first approximation would be completed and the results would be combined with concentrations and river flows, thereby providing an estimate of the dilution of the CSO discharge and instream concentrations. The second approximation method explicitly accounts for CSO discharge concentrations, and also for background concentrations in the stream. It does not include transport, fate, or decay processes. The second approximation again assumes that bacteriological standards are the most critical and the most difficult criteria to meet.

A spreadsheet analysis is the simplest means of conducting the second approximation method. Using this method involves combining the stream discharge rates with the predicted CSO discharge rates (from the SWMM model or actual data from the typical year). Event mean concentrations in CSO discharges would be used in conjunction with the CSO discharge rates to predict concentrations.

### **5.3.3. Third Approximation Method – Dilution/Decay Evaluation**

The third approximation method is the most complex and comprehensive evaluation that can be performed to assess CSO impacts on receiving streams. Data from the typical year, or a continuous SWMM simulation similar to the evaluation mentioned above, would be used to predict CSO discharge hydrographs as input for subsequent receiving water evaluation (modeling). This approach would account for the transport, fate, and decay of the parameters of interest. The choice of modeling tools depends on the specific questions that need to be answered and how detailed the simulation needs to be to obtain necessary information. A simple spreadsheet model may be applicable for a one-dimensional transport/decay model while more sophisticated water quality modeling tools such as USEPA QUAL2EU steady-state model or Water Quality Analysis Simulation Program (WASP) dynamic model would be more applicable for a two- or three-dimensional transport/decay model. These sophisticated models are also capable of modeling other parameters in addition to fecal coliform such as DO, nitrogen, phosphorus, and carbonaceous biochemical oxygen demand (CBOD).

The extent of the water quality evaluations necessary for assessing the impact from the City's CSOs on the Rondout Creek will be determined upon collecting and evaluating of the CSO discharge flow data and the receiving stream water quality data. It is anticipated that the end of pipe evaluation will be utilized.



## **Appendix B**

### **Rondout Creek Sampling Raw Data**

Initials: AJA

Date: 5-7-14

Page 1 of 1

Sampling Team: R. TERPENGING / A. ADIN / A. J. BRONKS / C. SCHEFFEL

Weather: MISTY SWIRLY

Temperature: HIGH

Direction of Flow: EASTERLY (CUT)

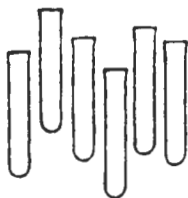
50°  
(START 10:30A.) - (END 11:45A.)

(LOWER CREEK SAMPLING)

Sampling Location	Time	Field Parameter	Physical Observations	Comments
#1 MIDDLE OF RIVINGTON CK. ~ 250 YDS UPSTREAM OF WILBUR OUTFALL	LAT: 41.90652 LONG: 74.00443 10:48AM	DO 10.1 mg/L temperature 15.4°C	Grease NONE Floatables STICKS Odors NONE	TIDE OUT (EASTERLY). 10 YDS WESTERNLY OF FEENEY DRY DOCK
#2 MID. RIVINGTON CK UPSTREAM OF BLOCK PK	LAT: 41.91247 LONG: 73.99210 11:06AM	DO 10.3 mg/L temperature 14.7°C	Grease NONE Floatables NONE Odors NONE	TIDE OUT (EASTERLY) 50 YDS - SOUTHERLY OF CAUSEWAY CULVERTS TO ISLAND DOCK.
#3 MID. RIVINGTON CK. ~ 150 YDS UPSTREAM OF BRIDGE (OLD)	LAT: 41.9147 LONG: 73.98468 11:13AM	DO 10.4 mg/L temperature 14.4°C	Grease NONE Floatables <sup>MINI MISC.</sup> STICKS Odors NONE	TIDE OUT (EASTERLY) 25 YDS SOUTHERLY OF STEEL BOILER NEAR ISLAND BULKHEAD.
#4 MID RIVINGTON CK ~ 200 YDS DOWNSTREAM OF BRIDGE (NEW).	LAT: 41.9132 LONG: 73.97407 11:29AM	DO 10.4 mg/L temperature 14.3°C	Grease NONE Floatables NONE Odors NONE	TIDE OUT (EAST) 50 YDS SOUTH OF STEELHOUSE PATIO
#5 MID. RIVINGTON CK. UPSTREAM OF KGW PT PK	LAT: 41.921934 LONG: 73.96950 11:38A.	DO 10.5 mg/L temperature 14.1°C	Grease NONE Floatables NONE Odors NONE	TIDE OUT (EAST) 50 YDS SOUTH CROSSING SL
#6 MID. RIVINGTON CK, UNDER LOUGHMAN (RT. 9W) BRIDGE	LAT: 41.91745 LONG: 73.98139 11:21AM	DO 10.4 mg/L temperature 14.2°C	Grease NONE Floatables NONE Odors NONE	TIDE OUT (EAS) 50 YDS SOUTH DOUBLE SLIDE 1
#7 UPSTREAM OF EDDYVILLE DAM C. AND/OR BOAT LUNCH CREEK LUCKS RD TWIN OF	LAT: 41.88481 LONG: 74.03009 12:47AM	DO 9.8 mg/L temperature 16°C	Grease NONE Floatables NONE Odors <del>ORANGE</del>	<del>TIDE OUT</del> - <del>WATER</del> / SITE END OF BOAT - WANCH - 40 FT FROM END OF GUIDERAIL - SAMPLING DONE FROM POLE - NO BOAT AVAILABLE
#8 DUPLICATE	SITE #5 11:42A.	DO temperature	Grease Floatables Odors	SEE SITE #5 ABOVE

SITE  
UNDEFFECTED  
BY TIDE





# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Wastewater Treatment Plant  
Attn: Allen Winchell  
91-129 East Strand  
Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek  
**Sample Type:** Surface Water  
**Order comment:**  
**Order ID:** 120878

---

**Sample Number:** 214571  
**Sample Location:** Site #1  
**Sample Comment:** FC rec'd at 13.0 deg C.  
**Date/Time sample collected:** 5/7/2014 10:48  
**Date/Time sample received:** 5/7/2014 14:00  
**Date/Time sample analyzed:** 5/7/2014 16:40

**Collected By:** Alan Adin  
**Received by:** Amy Jo  
**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	< 10	CFU/100mL	SM 18 9222D

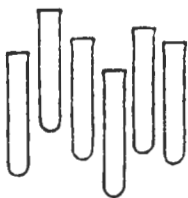
\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

12-May-14

*Smith Laboratory is approved as an Environmental Testing Laboratory in conformance with the National Environmental Laboratory Accreditation Conference (NELAC) Standards. This test report pertains only to the above items analyzed on this sample as received by the laboratory. Information supplied by the client is assumed to be correct.*



# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Wastewater Treatment Plant  
Attn: Allen Winchell  
91-129 East Strand  
Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek  
**Sample Type:** Surface Water  
**Order comment:**  
**Order ID:** 120878

---

**Sample Number:** 214572  
**Sample Location:** Site #2  
**Sample Comment:** FC rec'd at 10.6 deg C.  
**Date/Time sample collected:** 5/7/2014 11:06  
**Date/Time sample received:** 5/7/2014 14:00  
**Date/Time sample analyzed:** 5/7/2014 16:40

**Collected By:** Alan Adin  
**Received by:** Amy Jo  
**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	60	CFU/100mL	SM 18 9222D

\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

12-May-14

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HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Wastewater Treatment Plant  
Attn: Allen Winchell  
91-129 East Strand  
Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek  
**Sample Type:** Surface Water  
**Order comment:**  
**Order ID:** 120878

---

**Sample Number:** 214573  
**Sample Location:** Site #3  
**Sample Comment:** FC rec'd at 10.7 deg C.  
**Date/Time sample collected:** 5/7/2014 11:13  
**Date/Time sample received:** 5/7/2014 14:00  
**Date/Time sample analyzed:** 5/7/2014 16:40

**Collected By:** Alan Adin  
**Received by:** Amy Jo  
**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	10	CFU/100mL	SM 18 9222D

\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

12-May-14

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HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Wastewater Treatment Plant  
Attn: Allen Winchell  
91-129 East Strand  
Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek  
**Sample Type:** Surface Water  
**Order comment:**  
**Order ID:** 120878

---

**Sample Number:** 214574  
**Sample Location:** Site #4  
**Sample Comment:** FC rec'd at 13.7 deg C.  
**Date/Time sample collected:** 5/7/2014 11:29  
**Date/Time sample received:** 5/7/2014 14:00  
**Date/Time sample analyzed:** 5/7/2014 16:40

**Collected By:** Alan Adin  
**Received by:** Amy Jo  
**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	40	CFU/100mL	SM 18 9222D

---

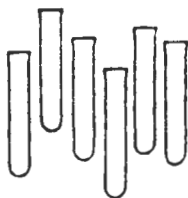
\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

12-May-14

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## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Wastewater Treatment Plant  
Attn: Allen Winchell  
91-129 East Strand  
Kingston NY 12401

**PO #**

---

**Client Project Name:** Rondout Creek  
**Sample Type:** Surface Water  
**Order comment:**  
**Order ID:** 120878

---

**Sample Number:** 214575  
**Sample Location:** Site #5  
**Sample Comment:** FC rec'd at 14.0 deg C.  
**Date/Time sample collected:** 5/7/2014 11:38  
**Date/Time sample received:** 5/7/2014 14:00  
**Date/Time sample analyzed:** 5/7/2014 16:40

**Collected By:** Alan Adin  
**Received by:** Amy Jo  
**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	40	CFU/100mL	SM 18 9222D

---

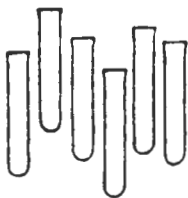
\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

12-May-14

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HYDE PARK, NEW YORK 12538  
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## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Wastewater Treatment Plant  
Attn: Allen Winchell  
91-129 East Strand  
Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek  
**Sample Type:** Surface Water  
**Order comment:**  
**Order ID:** 120878

---

**Sample Number:** 214576  
**Sample Location:** Site #6  
**Sample Comment:** FC rec'd at 13.8 deg C.  
**Date/Time sample collected:** 5/7/2014 11:21  
**Date/Time sample received:** 5/7/2014 14:00  
**Date/Time sample analyzed:** 5/7/2014 16:40

**Collected By:** Alan Adin  
**Received by:** Amy Jo  
**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	30	CFU/100mL	SM 18 9222D

---

\*Bacteriological test results are expressed as Colony Forming Units.

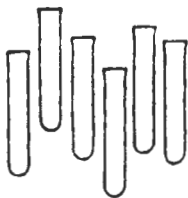
**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

12-May-14

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HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Wastewater Treatment Plant  
Attn: Allen Winchell  
91-129 East Strand  
Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek  
**Sample Type:** Surface Water  
**Order comment:**  
**Order ID:** 120878

---

**Sample Number:** 214577  
**Sample Location:** Site #7  
**Sample Comment:** FC rec'd at 11.7 deg C.  
**Date/Time sample collected:** 5/7/2014 12:51  
**Date/Time sample received:** 5/7/2014 14:00  
**Date/Time sample analyzed:** 5/7/2014 16:40

**Collected By:** Alan Adin  
**Received by:** Amy Jo  
**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	10	CFU/100mL	SM 18 9222D

---

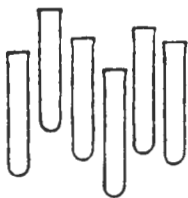
\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

  
Reviewed by: Lab Manager, ELAP Lab ID #10924

12-May-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
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HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Wastewater Treatment Plant  
Attn: Allen Winchell  
91-129 East Strand  
Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek  
**Sample Type:** Surface Water  
**Order comment:**  
**Order ID:** 120878

---

**Sample Number:** 214578  
**Sample Location:** Duplicate  
**Sample Comment:** FC rec'd at 13.1 deg C.  
**Date/Time sample collected:** 5/7/2014 11:42  
**Date/Time sample received:** 5/7/2014 14:00  
**Date/Time sample analyzed:** 5/7/2014 16:40

**Collected By:** Alan Adin  
**Received by:** Amy Jo  
**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	30	CFU/100mL	SM 18 9222D

---

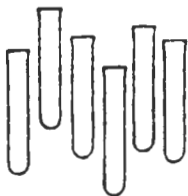
\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

12-May-14

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(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Wastewater Treatment Plant  
Attn: Allen Winchell  
91-129 East Strand  
Kingston NY 12401

**PO #**

---

**Client Project Name:** Rondout Creek  
**Sample Type:** Water  
**Order comment:**  
**Order ID:** 120878

---

**Sample Number:** 214729  
**Sample Location:** Blank-QC  
**Sample Comment:** FC blank plate run with 100 mL buffered rinse water.  
**Date/Time sample collected:** 5/7/2014 16:40 **Collected By:**  
**Date/Time sample received:** 5/7/2014 16:40 **Received by:** Amy Jo  
**Date/Time sample analyzed:** 5/7/2014 16:40 **Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	< 1	CFU/100mL	SM 18 9222D

\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

  
Reviewed by: Lab Manager, ELAP Lab ID #10924

12-May-14

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Attachment 1 - Sampling Event Summary Sheet

Initials: AJA  
 Sampling Team: A. ADIN/R. SWENSON/A. WINCHELL/K. MCINTOSH  
 Weather: CLEAR - 70°  
 Direction of Flow: IN - WESTERLY.

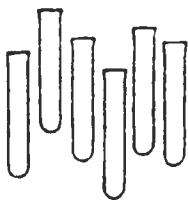
Date: 5.12.14.

Page 1 of 1

Temperature: \_\_\_\_\_

RONDONT CREEK.

Sampling Location	Time	Field Parameter	Physical Observations	Comments
SITE #1 MID CREEK - ~250 YDS UPSTREAM OF WILBUR OUTFALL	10:55A LAT: <del>41.54</del> 41.907 LONG: 74.003	DO 9.4 mg/L temperature 18.4°C	Grease NONE Floatables NONE Odors NONE	TIDE IN WESTERLY 10 YDS - WEST OF FEENEY DRY DOCK
SITE #2 MID CREEK - UPSTREAM OF BLACK PARK.	11:10A. LAT: 41.91 LONG 73.94	DO 9.6 mg/L temperature 17.5°C	Grease NONE Floatables NONE Odors NONE	TIDE IN WESTERLY. 50 YDS - SOUTHERLY - <del>PA</del> ISLAND DOCK CAUSEWAY/CULVERTS.
SITE #3 MID CREEK ~150 YDS UPSTREAM OF OLD BRIDGE	11:19A. LAT: 41.9149 LONG: 73.9849.	DO 9.7 mg/L temperature 17.1°C	Grease NONE Floatables NONE Odors NONE.	TIDE IN WESTERLY. 25 YDS. SOUTHERLY STEEL BOILERS PROTRUDING FROM WATER. NORTHERLY SIDE OF CREEK
SITE #4 MID CREEK ~200 YDS DOWNSTREAM OF NEW BRIDGE	11:32A LAT: 41.9193 LONG 73.9790	DO 9.8 9.7 mg/L temperature <del>17.0°C</del> 17.0°C.	Grease NONE Floatables NONE Odors NONE	50 YDS SW 2LY OF STEELHOUSE REST. PATIO TIDE IN WE 2LY.
SITE #5 MID CREEK UPSTREAM OF KINGSTON PT. PARK	11:41A. LAT 41.9220 LONG 73.9697	DO 9.6 mg/L. temperature 16.9°C	Grease NONE Floatables NONE Odors NONE.	TIDE IN EAST 7 50 YDS SOUTH 4 OF CHGE - DANCE SIGN.
SITE #6 MID CREEK UNDER NEW BRIDGE	11:26A. LAT 41.9177 LONG 73.9813	DO 9.7 mg/L temperature 17.0°C	Grease NONE Floatables NONE Odors NONE	TIDE IN WESTE - 50 YDS SOUTHERLY OF CLEARWAT SHED DOUBLE DOCKES.
SITE #7 UPSTREAM OF EDOYVILLE DAM (NYSDEC BOAT LAUNCH - CREEK LOCKS W/ TERRACE CLUSTER.	12:25P. LAT: 41.8848 LONG: 74.0300	DO 9.9 mg/L temperature 16.3°C	Grease NONE Floatables NONE Odors NONE	<del>SEE SITE #1</del> - WESTERLY END OF NYSDEC BOAT LAUNCH ~40 FROM END OF GUIDERAIL - SAMPLE FROM POLE SHORE W/ POLE/SITE UNFFECTED BY TIDE
#8 DUPLICATE	SITE #1 10:57A.	DO temperature	Grease Floatables Odors	SEE SITE #1.



# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office

Attn: Alan Adin

420 Broadway

Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek

**Sample Type:** Surface Water

**Order comment:**

**Order ID:** 120973

---

**Sample Number:** 214784

**Sample Location:** Site #1, grab

**Sample Comment:** FC rec'd at 15.4 deg C.

**Date/Time sample collected:** 5/12/2014 10:55

**Collected By:** Alan Adin

**Date/Time sample received:** 5/12/2014 15:30

**Received by:** Amy Jo

**Date/Time sample analyzed:** 5/12/2014 16:40

**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	30	CFU/100mL	SM 18 9222D

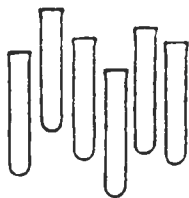
\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

19-May-14

*Smith Laboratory is approved as an Environmental Testing Laboratory in conformance with the National Environmental Laboratory Accreditation Conference (NELAC) Standards. This test report pertains only to the above items analyzed on this sample as received by the laboratory. Information supplied by the client is assumed to be correct.*



# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office

Attn: Alan Adin

420 Broadway

Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek

**Sample Type:** Surface Water

**Order comment:**

**Order ID:** 120973

---

**Sample Number:** 214785

**Sample Location:** Site #2, grab

**Sample Comment:** FC rec'd at 14.6 deg C.

**Date/Time sample collected:** 5/12/2014 11:10

**Collected By:** Alan Adin

**Date/Time sample received:** 5/12/2014 15:30

**Received by:** Amy Jo

**Date/Time sample analyzed:** 5/12/2014 16:40

**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	< 10	CFU/100mL	SM 18 9222D

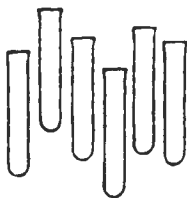
\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

19-May-14

*Smith Laboratory is approved as an Environmental Testing Laboratory in conformance with the National Environmental Laboratory Accreditation Conference (NELAC) Standards. This test report pertains only to the above items analyzed on this sample as received by the laboratory. Information supplied by the client is assumed to be correct.*



# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office

Attn: Alan Adin

420 Broadway

Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek

**Sample Type:** Surface Water

**Order comment:**

**Order ID:** 120973

---

**Sample Number:** 214786

**Sample Location:** Site #3, grab

**Sample Comment:** FC rec'd at 11.2 deg C.

**Date/Time sample collected:** 5/12/2014 11:19

**Collected By:** Alan Adin

**Date/Time sample received:** 5/12/2014 15:30

**Received by:** Amy Jo

**Date/Time sample analyzed:** 5/12/2014 16:40

**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	20	CFU/100mL	SM 18 9222D

\*Bacteriological test results are expressed as Colony Forming Units.

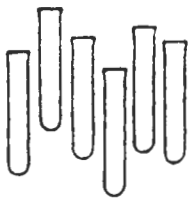
**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

19-May-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office

Attn: Alan Adin

420 Broadway

Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek

**Sample Type:** Surface Water

**Order comment:**

**Order ID:** 120973

---

**Sample Number:** 214787

**Sample Location:** Site #4, grab

**Sample Comment:** FC rec'd at 14 deg C.

**Date/Time sample collected:** 5/12/2014 11:32

**Collected By:** Alan Adin

**Date/Time sample received:** 5/12/2014 15:30

**Received by:** Amy Jo

**Date/Time sample analyzed:** 5/12/2014 16:40

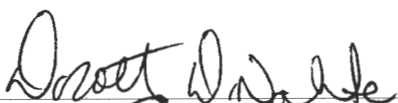
**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	50	CFU/100mL	SM 18 9222D

\*Bacteriological test results are expressed as Colony Forming Units.

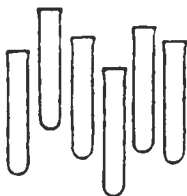
**Results Comment:**



Reviewed by: Lab Manager, ELAP Lab ID #10924

19-May-14

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# SMITH LABORATORY

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HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office

Attn: Alan Adin

420 Broadway

Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek

**Sample Type:** Surface Water

**Order comment:**

**Order ID:** 120973

---

**Sample Number:** 214788

**Sample Location:** Site #5, grab

**Sample Comment:** FC rec'd at 15.4 deg C.

**Date/Time sample collected:** 5/12/2014 11:41

**Collected By:** Alan Adin

**Date/Time sample received:** 5/12/2014 15:30

**Received by:** Amy Jo

**Date/Time sample analyzed:** 5/12/2014 16:40

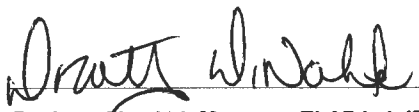
**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	20	CFU/100mL	SM 18 9222D

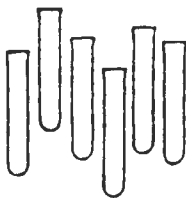
\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

  
Reviewed by: Lab Manager, ELAP Lab ID #10924

19-May-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office

Attn: Alan Adin

420 Broadway

Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek

**Sample Type:** Surface Water

**Order comment:**

**Order ID:** 120973

---

**Sample Number:** 214789

**Sample Location:** Site #6, grab

**Sample Comment:** FC rec'd at 14.3 deg C.

**Date/Time sample collected:** 5/12/2014 11:26

**Collected By:** Alan Adin

**Date/Time sample received:** 5/12/2014 15:30

**Received by:** Amy Jo

**Date/Time sample analyzed:** 5/12/2014 16:40

**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	10	CFU/100mL	SM 18 9222D

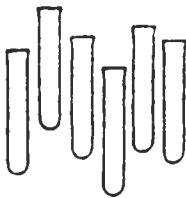
\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

19-May-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek  
**Sample Type:** Surface Water  
**Order comment:**  
**Order ID:** 120973

---

**Sample Number:** 214790  
**Sample Location:** Site #7, grab  
**Sample Comment:** FC rec'd at 14.9 deg C.  
**Date/Time sample collected:** 5/12/2014 12:25  
**Date/Time sample received:** 5/12/2014 15:30  
**Date/Time sample analyzed:** 5/12/2014 16:40

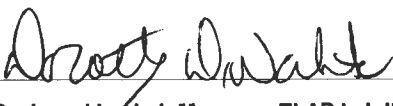
**Collected By:** Alan Adin  
**Received by:** Amy Jo  
**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	< 10	CFU/100mL	SM 18 9222D

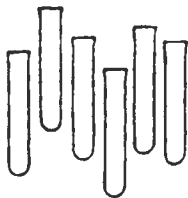
\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

  
Reviewed by: Lab Manager, ELAP Lab ID #10924

19-May-14

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ENVIRONMENTAL TESTING  
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(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office

Attn: Alan Adin

420 Broadway

Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek

**Sample Type:** Surface Water

**Order comment:**

**Order ID:** 120973

---

**Sample Number:** 214791

**Sample Location:** Duplicate, grab

**Sample Comment:** FC rec'd at 14.4 deg C.

**Date/Time sample collected:** 5/12/2014 10:57

**Collected By:** Alan Adin

**Date/Time sample received:** 5/12/2014 15:30

**Received by:** Amy Jo

**Date/Time sample analyzed:** 5/12/2014 16:40

**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	10	CFU/100mL	SM 18 9222D

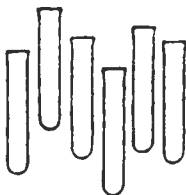
\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

19-May-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
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(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek  
**Sample Type:** Water  
**Order comment:**  
**Order ID:** 120973

---

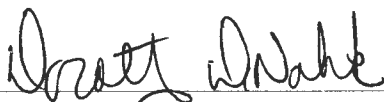
**Sample Number:** 214905  
**Sample Location:** Blank-QC  
**Sample Comment:** FC blank plate run with 100 mL buffered rinse water.  
**Date/Time sample collected:** 5/12/2014 16:40 **Collected By:**  
**Date/Time sample received:** 5/12/2014 16:40 **Received by:** Amy Jo  
**Date/Time sample analyzed:** 5/12/2014 16:40 **Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	< 1	CFU/100mL	SM 18 9222D

\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**



Reviewed by: Lab Manager, ELAP Lab ID #10924

19-May-14

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ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston NY 12401

PO #

Client Project Name: Rondout Creek  
Sample Location: Site #1, grab  
Order comment:

Order ID: 120973 Sample Number: 214784

Sample Type: Surface Water

Sample Collected By: Alan Adin

Date/Time sample collected:

Date/Time sample received:

Received by:

5/12/2014 10:55

5/12/2014 15:30

Amy Jo

Sample Comment: FC rec'd at 15.4 deg C.

Parameter:	Test Result	Units	Test Method	Test Date/Time	Tech**
Solids, Settleable	< 0.1	mL/L	SM20 2540F	5/13/2014 13:30	LAE
Total Suspended Solids	6	mg/L	SM20 2540 D	5/16/2014	JFE

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

07-Jun-14

Key: < = less than; A=Analysis performed over holding time; C=degrees Celsius; B=BOD blank depletion was greater than 0.2 mg/L; D=Elevated reporting limit; Est=Estimated Value; H=Sample received over analysis holding time; J=Result estimated below quantitation limit; MCL=New York State Maximum Contaminant Level; MDL=Method Detection Limit; mg/kg=milligrams per kilogram dry weight; mg/L=milligrams per Liter; mL/L=milliliters per Liter; ND=Not Detected; NTU=Nephelometric Turbidity Units; PtCo=Platinum Cobalt Units; Q=Not all QC data met acceptance criteria; SI = Saturation Index; SU=Standard pH Units; TON=Threshold Odor Number at 44.5 degrees C; ug/L-micrograms per Liter; umho/cm=micromhos per centimeter; V=Value above quantitation range; \*ELAP/NELAC does not offer certification for this analyte; \*\*ELAP ID is listed for sub-contract laboratory

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-8538

## CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston NY 12401

PO #

Client Project Name: Rondout Creek  
Sample Location: Site #2, grab  
Order comment:

Order ID: 120973 Sample Number: 214785

Sample Type: Surface Water

Sample Collected By: Alan Adin

Date/Time sample collected:

Date/Time sample received:

Received by:

5/12/2014 11:10

5/12/2014 15:30

Amy Jo

Sample Comment: FC rec'd at 14.6 deg C.

Parameter:	Test Result	Units	Test Method	Test Date/Time	Tech**
Solids, Settleable	< 0.1	mL/L	SM20 2540F	5/13/2014 13:30	LAE
Total Suspended Solids	5	mg/L	SM20 2540 D	5/16/2014	JFE

Results Comment:

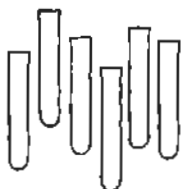
Reviewed by: Lab Manager, ELAP Lab ID #10924

07-Jun-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-8536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY

12401

PO #

**Client Project Name:** Rondout Creek

**Sample Location:** Site #3, grab

**Order comment:**

**Order ID:** 120973

**Sample Number:** 214786

**Sample Type:** Surface Water

**Sample Collected By:** Alan Adin

**Date/Time sample collected:**

**Date/Time sample received:**

**Received by:**

5/12/2014 11:19

5/12/2014 15:30

Amy Jo

**Sample Comment:** FC rec'd at 11.2 deg C.

Parameter:	Test Result	Units	Test Method	Test Date/Time	Tech**
Solids, Settleable	< 0.1	mL/L	SM20 2540F	5/13/2014 13:30	LAE
Total Suspended Solids	6	mg/L	SM20 2540 D	5/16/2014	JFE

**Results Comment:**

**Reviewed by:** Lab Manager, ELAP Lab ID #10924

07-Jun-14

Key: < = less than; A=Analysis performed over holding time; C=degrees Celsius; B=BOD blank depletion was greater than 0.2 mg/L; D=Elevated reporting limit; Est=Estimated Value; H=Sample received over analysis holding time; J=Result estimated below quantitation limit; MCL=New York State Maximum Contaminant Level; MDL=Method Detection Limit; mg/kg=milligrams per kilogram dry weight; mg/L=milligrams per Liter; mL/L=milliliters per Liter; ND=Not Detected; NTU=Nephelometric Turbidity Units; PtCo=Platinum Cobalt Units; Q=Not all QC data met acceptance criteria; SI = Saturation Index; SU=Standard pH Units; TON=Threshold Odor Number at 44.5 degrees C; ug/L-micrograms per Liter; umho/cm=micromhos per centimeter; V=Value above quantitation range; \*ELAP/NELAC does not offer certification for this analyte; \*\*ELAP ID is listed for sub-contract laboratory

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ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston NY 12401 **PO #**

**Client Project Name:** Rondout Creek  
**Sample Location:** Site #4, grab  
**Order comment:**

**Order ID:** 120973 **Sample Number:** 214787 **Sample Type:** Surface Water

**Sample Collected By:** Alan Adin  
**Date/Time sample collected:** 5/12/2014 11:32 **Date/Time sample received:** 5/12/2014 15:30 **Received by:** Amy Jo  
**Sample Comment:** FC rec'd at 14 deg C.

Parameter:	Test Result	Units	Test Method	Test Date/Time	Tech**
Solids, Settleable	< 0.1	mL/L	SM20 2540F	5/13/2014 13:30	LAE
Total Suspended Solids	29	mg/L	SM20 2540 D	5/16/2014	JFE

**Results Comment:**

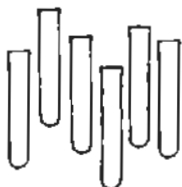
**Reviewed by:** Lab Manager, ELAP Lab ID #10924

07-Jun-14

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ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston NY 12401 PO #

**Client Project Name:** Rondout Creek  
**Sample Location:** Site #5, grab  
**Order comment:**

**Order ID:** 120973 **Sample Number:** 214788 **Sample Type:** Surface Water

**Sample Collected By:** Alan Adin  
**Date/Time sample collected:** 5/12/2014 11:41 **Date/Time sample received:** 5/12/2014 15:30 **Received by:** Amy Jo  
**Sample Comment:** FC rec'd at 15.4 deg C.

Parameter:	Test Result	Units	Test Method	Test Date/Time	Tech**
Solids, Settlesable	< 0.1	mL/L	SM20 2540F	5/13/2014 13:30	LAE
Total Suspended Solids	7	mg/L	SM20 2540 D	5/16/2014	JFE

**Results Comment:**

**Reviewed by:** Lab Manager, ELAP Lab ID #10924

07-Jun-14

Key: < = less than; A=Analysis performed over holding time; C=degrees Celsius; B=BOD blank depletion was greater than 0.2 mg/L; D=Elevated reporting limit; Est=Estimated Value; H=Sample received over analysis holding time; J=Result estimated below quantitation limit; MCL=New York State Maximum Contaminant Level; MDL=Method Detection Limit; mg/kg=milligrams per kilogram dry weight; mg/L=milligrams per Liter; mL/L=milliliters per Liter; ND=Not Detected; NTU=Nephelometric Turbidity Units; PtCo=Platinum Cobalt Units; Q=Not all QC data met acceptance criteria; SI = Saturation Index; SU=Standard pH Units; TON=Threshold Odor Number at 44.5 degrees C; ug/L-micrograms per Liter; umho/cm=micromhos per centimeter; V=Value above quantitation range; \*ELAP/NELAC does not offer certification for this analyte; \*\*ELAP ID is listed for sub-contract laboratory

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-8538

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY

12401

PO #

**Client Project Name:** Rondout Creek  
**Sample Location:** Site #6, grab  
**Order comment:**

**Order ID:** 120973

**Sample Number:** 214789

**Sample Type:** Surface Water

**Sample Collected By:** Alan Adin

**Date/Time sample collected:**

**Date/Time sample received:**

**Received by:**

5/12/2014 11:28

5/12/2014 15:30

Amy Jo

**Sample Comment:** FC rec'd at 14.3 deg C.

Parameter:	Test Result	Units	Test Method	Test Date/Time	Tech**
Solids, Settleable	< 0.1	mL/L	SM20 2540F	5/13/2014 13:30	LAE
Total Suspended Solids	5	mg/L	SM20 2540 D	5/16/2014	JFE

**Results Comment:**

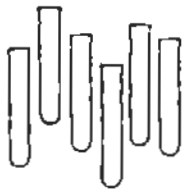
**Reviewed by:** Lab Manager, ELAP Lab ID #10924

07-Jun-14

Key: < = less than; A=Analysis performed over holding time; C=degrees Celsius; B=BOD blank depletion was greater than 0.2 mg/L; D=Elevated reporting limit; Est=Estimated Value; H=Sample received over analysis holding time; J=Result estimated below quantitation limit; MCL=New York State Maximum Contaminant Level; MDL=Method Detection Limit; mg/kg=milligrams per kilogram dry weight; mg/L=milligrams per Liter; mL/L=milliliters per Liter; ND=Not Detected; NTU=Nephelometric Turbidity Units; PtCo=Platinum Cobalt Units; O=Not all OC data met acceptance criteria; SI = Saturation Index; SU=Standard pH Units; TON=Threshold Odor Number at 44.5 degrees C; ug/L-micrograms per Liter; umho/cm=micromhos per centimeter; V=Value above quantitation range; \*ELAP/NELAC does not offer certification for this analyte; \*\*ELAP ID is listed for sub-contract laboratory

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 228-8538

## CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston NY 12401

PO #

Client Project Name: Rondout Creek  
Sample Location: Site #7, grab  
Order comment:

Order ID: 120973

Sample Number: 214790

Sample Type: Surface Water

Sample Collected By: Alan Adin

Date/Time sample collected:

Date/Time sample received:

Received by:

5/12/2014 12:25

5/12/2014 15:30

Amy Jo

Sample Comment: FC rec'd at 14.9 deg C.

Parameter:	Test Result	Units	Test Method	Test Date/Time	Tech**
Solids, Settleable	< 0.1	mL/L	SM20 2540F	5/13/2014 14:50	LAE
Total Suspended Solids	5	mg/L	SM20 2540 D	5/16/2014	JFE

Results Comment:

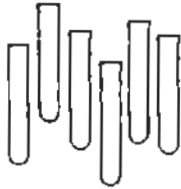
Reviewed by: Lab Manager, ELAP Lab ID #10924

07-Jun-14

Key: < = less than; A=Analysis performed over holding time; C=degrees Celsius; B=BOD blank depletion was greater than 0.2 mg/L; D=Elevated reporting limit; Est=Estimated Value; H=Sample received over analysis holding time; J=Result estimated below quantitation limit; MCL=New York State Maximum Contaminant Level; MDL=Method Detection Limit; mg/kg=milligrams per kilogram dry weight; mg/L=milligrams per Liter; mL/L=milliliters per Liter; ND=Not Detected; NTU=Nephelometric Turbidity Units; PtCo=Platinum Cobalt Units; Q=Not all QC data met acceptance criteria; SI = Saturation Index; SU=Standard pH Units; TON=Threshold Odor Number at 44.5 degrees C; ug/L-micrograms per Liter; umho/cm=micromhos per centimeter; V=Value above quantitation range; \*ELAP/NELAC does not offer certification for this analyte; \*\*ELAP ID is listed for sub-contract laboratory

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Total number of pages in this report, including chain of custody, is 9



# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY

12401

PO #

Client Project Name: Rondout Creek  
Sample Location: Duplicate, grab  
Order comment:

Order ID: 120973

Sample Number: 214791

Sample Type: Surface Water

Sample Collected By: Alan Adin

Date/Time sample collected:

Date/Time sample received:

Received by:

5/12/2014 10:57

5/12/2014

15:30

Amy Jo

Sample Comment: FC rec'd at 14.4 deg C.

Parameter:	Test Result	Units	Test Method	Test Date/Time	Tech**
Solids, Settleable	< 0.1	mL/L	SM20 2540F	5/13/2014 14:50	LAE
Total Suspended Solids	6	mg/L	SM20 2540 D	5/15/2014	JFE

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

07-Jun-14

Key: < = less than; A=Analysis performed over holding time; C=degrees Celsius; B=BOD blank depletion was greater than 0.2 mg/L; D=Elevated reporting limit; Est=Estimated Value; H=Sample received over analysis holding time; J=Result estimated below quantitation limit; MCL=New York State Maximum Contaminant Level; MDL=Method Detection Limit; mg/kg=milligrams per kilogram dry weight, mg/L=milligrams per Liter, mL/L=milliliters per Liter; ND=Not Detected; NTU=Nephelometric Turbidity Units; PtCo=Platinum Cobalt Units; Q=Not all QC data met acceptance criteria; SI = Saturation Index; SU=Standard pH Units; TON=Threshold Odor Number at 44.5 degrees C; ug/L-micrograms per Liter; umho/cm=micromhos per centimeter; V=Value above quantitation range; \*ELAP/NELAC does not offer certification for this analyte; \*\*ELAP ID is listed for sub-contract laboratory

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## SMITH LABORATORY

4 Scenic Drive

Hyde Park, NY 12538-1313

Phone: 845-229-6536

Fax: 845-229-6538

## CHAIN OF CUSTODY

Turnaround Time: Standard ☒RUSH ☐ (Rush surcharge applies)

\*\* Date report requested:

Copy results to

Local Health Dept.

Yes ☐ No ☒Login Review: ☒

Amt Due:

Amt Paid:

Pmt Method:

Receipt No:

Client Name: CITY OF KINGSTON

Client Phone No: 845-334-3968

Project/Facility Name: RONDOUT CREEK

Mailing Address: 420 BROADWAY

Client Fax No.:

Location:

KINGSTON, NY 12401

Copy Report To: RALPH SWENSON

PWS Fed ID No: NY-

## LAB USE ONLY

## CLIENT: COMPLETE THE SAMPLE INFORMATION IN THE SPACE PROVIDED BELOW

## LAB USE ONLY

Order ID No: 120973 Sample No:	Sample Identification & Sample Point	Matrix	(Check One)			Treatment Type & Residual	Date/Time Sampled	Analysis Requested	Container & Preservative	Iced Y/N	Sample Temp, Deg C	Pres. at Lab Y/N
			Grab	Comp # hrs	First Draw							
21478446	SITE #1	SW	X				10:55A	SS/TSS	2-1LPLAS	Y	15.7/16.8	N
785	SITE #2	SW	X				11:00A	SS/TSS	2-1LPLAS		14.6/14.9	
786	SITE #3	SW	X				11:19A	SS/TSS	2-1LPLAS		15.6/17.4	
787	SITE #4	SW	X				11:32A	SS/TSS	2-1LPLAS		14.2/16.8	
788	SITE #5	SW	X				11:41A	SS/TSS	2-1LPLAS		18.9/17.8	
789	SITE #6	SW	X				11:26A	SS/TSS	2-1LPLAS		15.3/16.2	
790	SITE #7	SW	X				12:25P	SS/TSS	2-1LPLAS		18.1/15.1	
791	DUPLICATE	SW	X				10:57A	SS/TSS	2-1LPLAS		16.3/16.1	

Sampled By: (Name) ALAN ADIN (Title) ENGINEERING TECH. I hereby affirm that the information above is true and complete to the best of my knowledge. I also affirm that I am responsible for payment, unless other payment arrangements are approved in advance by Smith Laboratory.

Sample Relinquished By: ALAN ADIN

Received By: 

Date: 5/12/14 Time: 1530

Sample Relinquished By:

Received at Lab By:

Date: 5/12/14 Time: 1530

Sample(s) received met the following requirements

Thermal Preservation: NA Yes No

Chemical Preservation: NA Yes No

Correct Bottle Type Yes No

Other

Comments:

Initials:

AJA

Date: 5.16.14

Page 1 of 1

Sampling Team:

A. ADIA / R. SWENSON / R. SCHEFFEL

Weather:

OVERCAST - LIGHT RAIN

Temperature:

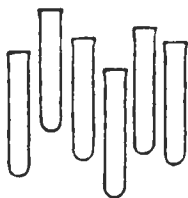
LOW 60's

Direction of Flow:

OUT - EASTERLY / LOW TIDE

ROUND CREEK

Sampling Location	Time	Field Parameter	Physical Observations	Comments
SITE 1 - MID CREEK - ~ 250 YDS UPSTREAM OF WILBUR OUTFALL - ROUND CREEK	10:05 A. LAT - 41.907 LONG - 74.004	DO 8.9 mg/L temperature 19.2°C	Grease NONE Floatables NONE Odors NONE	10 YDS EASTERNLY OF FERRY DRY DOCK - TIDE LOW - OUT EASTERLY
#2 - MID CREEK ROUND CREEK UPSTREAM OF BLACK PK.	LAT 41.912 LONG 73.992 10:15 A	DO 9.0 mg/L temperature 19.1°C	Grease NONE Floatables LIGHT POLLEN? Odors NONE	TIDE OUT - EASTERLY 50 YDS SOUTHERLY OF ISLAND DOCK CULVERTS.
#3 MID ROUND CREEK ~ 150 YDS UPSTREAM OF OLD BRIDGE	LAT 41.915 LONG 73.985 10:21 A	DO 9.0 mg/L temperature 19.1°C	Grease NONE Floatables NONE Odors NONE	TIDE OUT EASTERLY 25 YDS SOUTHERLY OF STEEL BOILER PROTRUDING FROM WATER NEAR ISLAND DOCK BULKHEAD.
#4 MID ROUND CREEK ~ 200 YDS DOWNSTREAM OF NEW BRIDGE	LAT 41.913 LONG 73.974 10:30 A	DO 9.0 mg/L temperature 19.0°C	Grease NONE Floatables NONE Odors NONE	TIDE OUT EAS 50 YDS S STEEL H
#5 MID ROUND CREEK - UPSTREAM OF KINGSTON PT. PARK	LAT 41.923 LONG 73.970 10:45 A	DO 8.9 mg/L temperature 19.1°C	Grease NONE Floatables NONE Odors NONE	TIDE OUT EAS 50 YDS SOW GAS LINE
#6 MID ROUND CREEK - UNDER NEW BRIDGE	LAT 41.918 LONG 73.981 10:35 A	DO 9.1 mg/L temperature 19.0°C	Grease NONE Floatables NONE Odors NONE	TIDE OUT EAS 50 YDS SOW CLEAR WATER DOUBLE
#7 UPSTREAM OF EDDYVILLE DAM NYSDEC BOAT LAUNCH - CREEKWAYS RD - TOWN OF VESTER.	LAT 41.885 LONG 74.030 11:10 A	DO 8.5 mg/L temperature 19.3°C	Grease NONE Floatables NONE Odors NONE	<del>1. EAST</del> MID ROUND CREEK - 50 YDS SOUTHERLY OF NYSDEC BOAT LAUNCH - UNDEFFECTED BY TIDE
DUPLICATE.	SEE SITE #2.	DO temperature	Grease Floatables Odors	SEE SITE #2 ABOVE



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## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office

Attn: Alan Adin

420 Broadway

Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek

**Sample Type:** Drinking Water

**Order comment:**

**Order ID:** 121143

---

**Sample Number:** 215177

**Sample Location:** Site #1, grab

**Sample Comment:** FC rec'd at 10.3 deg C.

**Date/Time sample collected:** 5/16/2014 10:05

**Collected By:** Ralph Swenson

**Date/Time sample received:** 5/16/2014 14:10

**Received by:** Amy Jo

**Date/Time sample analyzed:** 5/16/2014 16:10

**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	50**	CFU/100mL	SM 18 9222D

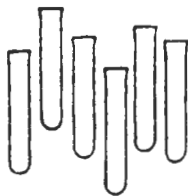
\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:** \*\*Sample analyzed 5 mins outside of 6 hr. holding time.

Reviewed by: Lab Manager, ELAP Lab ID #10924

19-May-14

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**Client:** City of Kingston Engineers Office

Attn: Alan Adin

420 Broadway

Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek

**Sample Type:** Drinking Water

**Order comment:**

**Order ID:** 121143

---

**Sample Number:** 215178

**Sample Location:** Site #2, grab

**Sample Comment:** FC rec'd at 10.9 deg C.

**Date/Time sample collected:** 5/16/2014 10:15

**Collected By:** Ralph Swenson

**Date/Time sample received:** 5/16/2014 14:10

**Received by:** Amy Jo

**Date/Time sample analyzed:** 5/16/2014 16:10

**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	80	CFU/100mL	SM 18 9222D

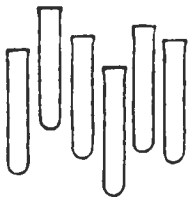
\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by Lab Manager, ELAP Lab ID #10924

19-May-14

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## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office

Attn: Alan Adin

420 Broadway

Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek

**Sample Type:** Drinking Water

**Order comment:**

**Order ID:** 121143

---

**Sample Number:** 215179

**Sample Location:** Site #3, grab

**Sample Comment:** FC rec'd at 12.8 deg C.

**Date/Time sample collected:** 5/16/2014 10:21

**Collected By:** Ralph Swenson

**Date/Time sample received:** 5/16/2014 14:10

**Received by:** Amy Jo

**Date/Time sample analyzed:** 5/16/2014 16:10

**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	40	CFU/100mL	SM 18 9222D

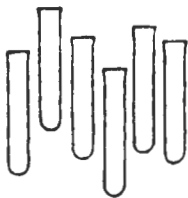
\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

19-May-14

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Attn: Alan Adin

420 Broadway

Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek

**Sample Type:** Drinking Water

**Order comment:**

**Order ID:** 121143

---

**Sample Number:** 215180

**Sample Location:** Site #4, grab

**Sample Comment:** FC rec'd at 13.4 deg C.

**Date/Time sample collected:** 5/16/2014 10:30

**Collected By:** Ralph Swenson

**Date/Time sample received:** 5/16/2014 14:10

**Received by:** Amy Jo

**Date/Time sample analyzed:** 5/16/2014 16:10

**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	10	CFU/100mL	SM 18 9222D

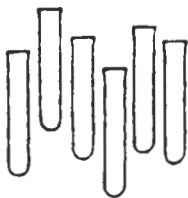
\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

19-May-14

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## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston NY 12401 PO #

---

**Client Project Name:** Rondout Creek  
**Sample Type:** Drinking Water  
**Order comment:**  
**Order ID:** 121143

---

**Sample Number:** 215181  
**Sample Location:** Site #5, grab  
**Sample Comment:** FC rec'd at 13.9 deg C.  
**Date/Time sample collected:** 5/16/2014 10:45 **Collected By:** Ralph Swenson  
**Date/Time sample received:** 5/16/2014 14:10 **Received by:** Amy Jo  
**Date/Time sample analyzed:** 5/16/2014 16:10 **Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	30	CFU/100mL	SM 18 9222D

\*Bacteriological test results are expressed as Colony Forming Units.

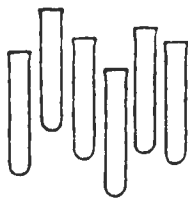
**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

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## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office

Attn: Alan Adin

420 Broadway

Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek

**Sample Type:** Drinking Water

**Order comment:**

**Order ID:** 121143

---

**Sample Number:** 215182

**Sample Location:** Site #6, grab

**Sample Comment:** FC rec'd at 13.7 deg C.

**Date/Time sample collected:** 5/16/2014 10:35

**Collected By:** Ralph Swenson

**Date/Time sample received:** 5/16/2014 14:10

**Received by:** Amy Jo

**Date/Time sample analyzed:** 5/16/2014 16:10

**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	20	CFU/100mL	SM 18 9222D

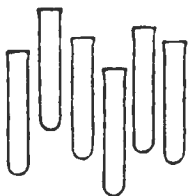
\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

19-May-14

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## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office

Attn: Alan Adin

420 Broadway

Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek

**Sample Type:** Drinking Water

**Order comment:**

**Order ID:** 121143

---

**Sample Number:** 215183

**Sample Location:** Site #7, grab

**Sample Comment:** FC red' at 12.9 deg C.

**Date/Time sample collected:** 5/16/2014 11:09

**Collected By:** Alan Adin

**Date/Time sample received:** 5/16/2014 14:10

**Received by:** Amy Jo

**Date/Time sample analyzed:** 5/16/2014 16:10

**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	10	CFU/100mL	SM 18 9222D

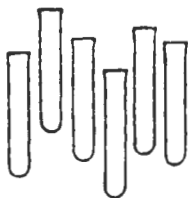
\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by Lab Manager, ELAP Lab ID #10924

19-May-14

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420 Broadway

Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek

**Sample Type:** Drinking Water

**Order comment:**

**Order ID:** 121143

---

**Sample Number:** 215184

**Sample Location:** Duplicate, grab

**Sample Comment:** FC rec'd at 15.8 deg C.

**Date/Time sample collected:** 5/16/2014 10:15

**Collected By:** Ralph Swenson

**Date/Time sample received:** 5/16/2014 14:10

**Received by:** Amy Jo

**Date/Time sample analyzed:** 5/16/2014 16:10

**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	90	CFU/100mL	SM 18 9222D

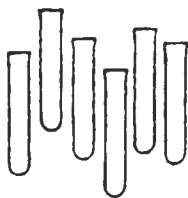
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**Results Comment:**

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420 Broadway

Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek

**Sample Type:** Water

**Order comment:**

**Order ID:** 121143

---

**Sample Number:** 215190

**Sample Location:** Blank-QC

**Sample Comment:** FC blank run with 100 mL buffered rinse water.

**Date/Time sample collected:** 5/16/2014 16:10

**Collected By:**

**Date/Time sample received:** 5/16/2014 16:10

**Received by:** Amy Jo

**Date/Time sample analyzed:** 5/16/2014 16:10

**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	< 1	CFU/100mL	SM 18 9222D

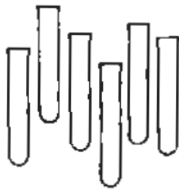
\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

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Client: City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

Client Project Name: Rondout Creek  
Sample Location: Site #1, grab  
Order comment:

Order ID: 121143 Sample Number: 215177

Sample Type: Surface Water

Sample Collected By: Ralph Swenson

Date/Time sample collected:

Date/Time sample received:

Received by:

5/16/2014 10:05

5/16/2014 14:10

Amy Jo

Sample Comment: FC rec'd at 10.3 deg C.

Parameter:	Test Result	Units	Test Method	Test Date/Time	Tech**
Solids, Settleable	< 0.1	mL/L	SM20 2540F	5/16/2014 16:45	LAE
Total Suspended Solids	4	mg/L	SM20 2540 D	5/20/2014	LAE

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

10-Jun-14

Key: < = less than; A=Analysis performed over holding time; C=degrees Celsius; B=BOD blank depletion was greater than 0.2 mg/L; D=Elevated reporting limit; Est=Estimated Value; H=Sample received over analysis holding time; J=Result estimated below quantitation limit; MCL=New York State Maximum Contaminant Level; MDL=Method Detection Limit; mg/kg=milligrams per kilogram dry weight; mg/L=milligrams per Liter; mL/L=milliliters per Liter; ND=Not Detected; NTU=Nephelometric Turbidity Units; PtCo=Platinum Cobalt Units; O=Not all OC data met acceptance criteria; SI = Saturation Index; SU=Standard pH Units; TON=Threshold Odor Number at 44.5 degrees C, ug/L-micrograms per Liter; umho/cm=micromhos per centimeter; V=Value above quantitation range; \*ELAP/NELAC does not offer certification for this analyte; \*\*ELAP ID is listed for sub-contract laboratory

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## CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

Client Project Name: Rondout Creek  
Sample Location: Site #2, grab  
Order comment:

Order ID: 121143

Sample Number: 215178

Sample Type: Surface Water

Sample Collected By: Ralph Swenson

Date/Time sample collected:

Date/Time sample received:

Received by:

5/16/2014 10:15

5/16/2014

14:10

Amy Jo

Sample Comment: FC rec'd at 10.9 deg C.

Parameter:	Test Result	Units	Test Method	Test Date/Time	Tech**
Solids, Settleable	< 0.1	mL/L	SM20 2540F	5/16/2014 16:45	LAE
Total Suspended Solids	4	mg/L	SM20 2540 D	5/20/2014	LAE

Results Comment:

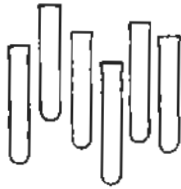
Reviewed by: Lab Manager, ELAP Lab ID #10924

10-Jun-14

Key: < = less than; A=Analysis performed over holding time; C=degrees Celsius; B=BOD blank depletion was greater than 0.2 mg/L; D=Elevated reporting limit; Est=Estimated Value; H=Sample received over analysis holding time; J=Result estimated below quantitation limit; MCL=New York State Maximum Contaminant Level; MDL=Method Detection Limit; mg/kg=milligrams per kilogram dry weight; mg/L=milligrams per Liter; mL/L=milliliters per Liter; ND=Not Detected; NTU=Nephelometric Turbidity Units; PtCo=Platinum Cobalt Units; Q=Not all QC data met acceptance criteria; SI = Saturation Index; SU=Standard pH Units; TQN=Threshold Odor Number at 44.5 degrees C; ug/L-micrograms per Liter; umho/cm=micromhos per centimeter; V=Value above quantitation range; \*ELAP/NELAC does not offer certification for this analyte; \*\*ELAP ID is listed for sub-contract laboratory

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Total number of pages in this report, including chain of custody, is 9



# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

Client Project Name: Rondout Creek  
Sample Location: Site #3, grab  
Order comment:

Order ID: 121143 Sample Number: 215179

Sample Type: Surface Water

Sample Collected By: Ralph Swenson

Date/Time sample collected:

Date/Time sample received:

Received by:

5/16/2014 10:21

5/16/2014 14:10

Amy Jo

Sample Comment: FC rec'd at 12.8 deg C.

Parameter:	Test Result	Units	Test Method	Test Date/Time	Tech™
Solids, Settleable	< 0.1	mL/L	SM20 2540F	5/16/2014 16:45	LAE
Total Suspended Solids	2	mg/L	SM20 2540 D	5/20/2014	LAE

Results Comment:

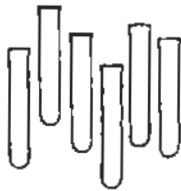
Reviewed by: Lab Manager, ELAP Lab ID #10924

10-Jun-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston NY 12401

PO #

**Client Project Name:** Rondout Creek  
**Sample Location:** Site #4, grab  
**Order comment:**

**Order ID:** 121143 **Sample Number:** 215180

**Sample Type:** Surface Water

**Sample Collected By:** Ralph Swenson

**Date/Time sample collected:**

**Date/Time sample received:**

**Received by:**

5/16/2014 10:30

5/16/2014 14:10

Amy Jo

**Sample Comment:** FC rec'd at 13.4 deg C.

Parameter:	Test Result	Units	Test Method	Test Date/Time	Tech™
Solids, Settleable	< 0.1	mL/L	SM20 2540F	5/16/2014 16:45	LAE
Total Suspended Solids	4	mg/L	SM20 2540 D	5/20/2014	LAE

**Results Comment:**

**Reviewed by:** Lab Manager, ELAP Lab ID #10924

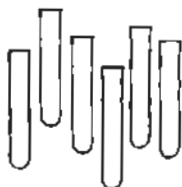
10-Jun-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-8536

## CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston NY 12401

PO #

Client Project Name: Rondout Creek  
Sample Location: Site #5, grab  
Order comment:

Order ID: 121143 Sample Number: 215181

Sample Type: Surface Water

Sample Collected By: Ralph Swenson

Date/Time sample collected:

Date/Time sample received:

Received by:

5/16/2014 10:45

5/16/2014 14:10

Amy Jo

Sample Comment: FC rec'd at 13.9 deg C.

Parameter:	Test Result	Units	Test Method	Test Date/Time	Tech**
Solids, Settleable	< 0.1	mL/L	SM20 2540F	5/16/2014 16:45	LAE
Total Suspended Solids	5	mg/L	SM20 2540 D	5/20/2014	LAE

Results Comment:

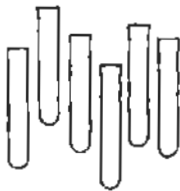
Reviewed by: Lab Manager, ELAP Lab ID #10924

10-Jun-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston NY 12401

PO #

Client Project Name: Rondout Creek  
Sample Location: Site #6, grab  
Order comment:

Order ID: 121143 Sample Number: 215182

Sample Type: Surface Water

Sample Collected By: Ralph Swenson

Date/Time sample collected:

Date/Time sample received:

Received by:

5/16/2014 10:35

5/16/2014 14:10

Amy Jo

Sample Comment: FC rec'd at 13.7 deg C.

Parameter:	Test Result	Units	Test Method	Test Date/Time	Tech™
Solids, Settleable	< 0.1	mL/L	SM20 2540F	5/16/2014 16:45	LAE
Total Suspended Solids	< 1	mg/L	SM20 2540 D	5/20/2014	LAE

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

10-Jun-14

Key: < = less than; A=Analysis performed over holding time; C=degrees Celsius; B=BOD blank depletion was greater than 0.2 mg/L; D=Elevated reporting limit; Est=Estimated Value; H=Sample received over analysis holding time; J=Result estimated below quantitation limit; MCL=New York State Maximum Contaminant Level; MDL=Method Detection Limit; mg/kg=milligrams per kilogram dry weight; mg/L=milligrams per Liter; mL/L=milliliters per Liter; ND=Not Detected; NTU=Nephelometric Turbidity Units; PtCo=Platinum Cobalt Units; Q=Not all QC data met acceptance criteria; SI = Saturation Index; SU=Standard pH Units; TON=Threshold Odor Number at 44.5 degrees C; ug/L-micrograms per Liter; umho/cm=micromhos per centimeter; V=Value above quantitation range; \*ELAP/NELAC does not offer certification for this analyte; \*\*ELAP ID is listed for sub-contract laboratory

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-8536

## CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

Client Project Name: Rondout Creek  
Sample Location: Site #7, grab  
Order comment:

Order ID: 121143

Sample Number: 215183

Sample Type: Surface Water

Sample Collected By: Ralph Swenson

Date/Time sample collected:

Date/Time sample received:

Received by:

5/16/2014 11:09

5/16/2014 14:10

Amy Jo

Sample Comment: FC red' at 12.9 deg C.

Parameter:	Test Result	Units	Test Method	Test Date/Time	Tech**
Solids, Settleable	< 0.1	mL/L	SM20 2540F	5/16/2014 17:05	LAE
Total Suspended Solids	3	mg/L	SM20 2540 D	5/20/2014	LAE

Results Comment:

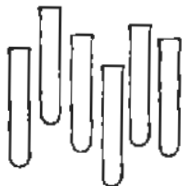
Reviewed by: Lab Manager, ELAP Lab ID #10924

10-Jun-14

Key: < = less than; A=Analysis performed over holding time; C=degrees Celsius; B=BOD blank depletion was greater than 0.2 mg/L; D=Elevated reporting limit; Est=Estimated Value; H=Sample received over analysis holding time; J=Result estimated below quantitation limit; MCL=New York State Maximum Contaminant Level; MDL=Method Detection Limit; mg/kg=milligrams per kilogram dry weight; mg/L=milligrams per Liter; mL/L=milliliters per Liter; ND=Not Detected; NTU=Nephelometric Turbidity Units; PtCo=Platinum Cobalt Units; Q=Not all QC data met acceptance criteria; SI = Saturation Index; SU=Standard pH Units; TON=Threshold Odor Number at 44.5 degrees C; ug/L-micrograms per Liter; umho/cm=micromhos per centimeter; V=Value above quantitation range; \*ELAP/NELAC does not offer certification for this analyte; \*\*ELAP ID is listed for sub-contract laboratory

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-8536

## CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston NY 12401

PO #

Client Project Name: Rondout Creek  
Sample Location: Duplicate, grab  
Order comment:

Order ID: 121143 Sample Number: 215184

Sample Type: Surface Water

Sample Collected By: Ralph Swenson

Date/Time sample collected:

Date/Time sample received:

Received by:

5/16/2014 10:15

5/16/2014 14:10

Amy Jo

Sample Comment: FC rec'd at 15.8 deg C.

Parameter:	Test Result	Units	Test Method	Test Date/Time	Tech**
Solids, Settleable	< 0.1	mL/L	SM20 2540F	5/16/2014 17:05	LAE
Total Suspended Solids	2	mg/L	SM20 2540 D	5/20/2014	LAE

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10824

10-Jun-14

Key: < = less than; A=Analysis performed over holding time; C=degrees Celsius; B=BOD blank depletion was greater than 0.2 mg/L; D=Elevated reporting limit; Est=Estimated Value; H=Sample received over analysis holding time; J=Result estimated below quantitation limit; MCL=New York State Maximum Contaminant Level; MDL=Method Detection Limit; mg/kg=milligrams per kilogram dry weight; mg/L=milligrams per Liter; mL/L=milliliters per Liter; ND=Not Detected; NTU=Nephelometric Turbidity Units; PtCo=Platinum Cobalt Units; Q=Not all QC data met acceptance criteria; SI = Saturation Index; SU=Standard pH Units; TQN=Threshold Qdor Number at 44.5 degrees C; ug/L-micrograms per Liter; umho/cm=micromhos per centimeter; V=Value above quantitation range; \*ELAP/NELAC does not offer certification for this analyte; \*\*ELAP ID is listed for sub-contract laboratory

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Total number of pages in this report, including chain of custody, is 9

SMITH LABORATORY  
4 Scenic Drive  
Hyde Park, NY 12538-1313  
Phone: 845-229-6536  
Fax: 845-229-6538

# CHAIN OF CUSTODY

Turnaround Time: Standard ☒  
**RUSH** ☐ (Rush surcharge applies)  
\*\* Date report requested:

Copy results to  
Local Health Dept.  
Yes ☐ No ☒

Login Review:  
Amt Due:  
Amt Paid:  
Pmt Method:  
Receipt No:

Client Name: CITY OF KINGSTON

Client Phone No: 845-334-3968

Project/Facility Name: ROUNDOUT CREEK

Mailing Address: 420 BROADWAY

Client Fax No.: \_\_\_\_\_

Location: \_\_\_\_\_

KINGSTON, NY 12401

Copy Report To: RALPH SWENSON

PWS Fed ID No: NY- \_\_\_\_\_

## LAB USE ONLY

## CLIENT: COMPLETE THE SAMPLE INFORMATION IN THE SPACE PROVIDED BELOW

## LAB USE ONLY

Order ID No: <u>121143</u> Sample No:	Sample Identification & Sample Point	Matrix	(Check One)			Treatment Type & Residual	Date/Time Sampled	Analysis Requested	Container & Preservative	Iced Y/N	Sample Temp, Deg C	Pres. at Lab Y/N
			Grab	Comp # hrs	First Draw							
<u>215177</u>	SITE #1	SW	X				<u>5/16/14</u> <u>10:05</u>	SS/TSS	<u>2-1LPLAS</u> <u>1/2 LPLAS</u>	<u>Y</u>	<u>11.7/10.3</u>	<u>N</u>
<u>178</u>	SITE #2	SW	X				<u>10:15</u>	SS/TSS	<u>2-1LPLAS</u> <u>1/2 LPLAS</u>		<u>11.1/11.1</u>	
<u>179</u>	SITE #3	SW	X				<u>10:21</u>	SS/TSS	<u>2-1LPLAS</u> <u>1/2 LPLAS</u>		<u>10.9/10.3</u>	
<u>180</u>	SITE #4	SW	X				<u>10:30</u>	SS/TSS	<u>2-1LPLAS</u> <u>1/2 LPLAS</u>		<u>11.2/10.6</u>	
<u>181</u>	SITE #5	SW	X				<u>10:45</u>	SS/TSS	<u>2-1LPLAS</u> <u>1/2 LPLAS</u>		<u>11.7/10.6</u>	
<u>182</u>	SITE #6	SW	X				<u>10:35</u>	SS/TSS	<u>2-1LPLAS</u> <u>1/2 LPLAS</u>		<u>13.9/10.1</u>	
<u>183</u>	SITE #7	SW	X				<u>11:09</u>	SS/TSS	<u>2-1LPLAS</u> <u>1/2 LPLAS</u>		<u>15.7/15.1</u>	
<u>184</u>	DUPLICATE	SW	X				<u>10:15</u>	SS/TSS	<u>2-1LPLAS</u> <u>1/2 LPLAS</u>	<u>+</u>	<u>13.1/15.8</u>	

Sampled By: (Name) RALPH SWENSON - CITY ENGINEER ALAN ADIN ENGINEERING TECH (Title) \_\_\_\_\_ I hereby affirm that the information above is true and complete to the best of my knowledge. I also affirm that I am responsible for payment, unless other payment arrangements are approved in advance by Smith Laboratory.

Sample Relinquished By: ALAN ADIN

Received By: \_\_\_\_\_

Date: \_\_\_\_\_ Time: \_\_\_\_\_

Sample Relinquished By: \_\_\_\_\_

Received at Lab By: JNA

Date: 35/16/14 Time: 14:10

Sample(s) received met the following requirements

Thermal Preservation: NA ☒ Yes ☐ No

Chemical Preservation: NA ☒ Yes ☐ No

Correct Bottle Type ☒ Yes ☐ No

Other \_\_\_\_\_

Comments: \_\_\_\_\_

Initials:

AA.

Date: 5.20.14

Page \_\_\_ of \_\_\_

Sampling Team:

J. PODESZEDLIK / A. Adin / A. Whittle

Weather:

Clear

Temperature:

70°

Direction of Flow:

OUT EASTERLY

Sampling Location	Time	Field Parameter	Physical Observations	Comments
#1 MID-RUNOFF CREEK ~250 YDS UPSTREAM OF WILBUR OUTFALL	LAT 41.906 LONG 74.004 10:43A.	DO 9.4 mg/L temperature 17.7°C	Grease NONE Floatables MODERATE NATURAL Odors NONE	TIDE OUT - EASTERLY 10 YDS WESTERLY OF FEENEY DRY DOCK (STICKS, LEAVES, VEGETATIVE MATTER)
#2 MID-RUNOFF CREEK. UPSTREAM OF BLACK PK.	LAT 41.912 LONG 73.992 10:55 AM	DO 9.4 mg/L temperature 17.2°C	Grease NONE Floatables MODERATE NATURAL Odors NONE	TIDE OUT - EASTERLY 50 YDS SOUTHERLY OF CAUSEWAY CULVERTS
#3 MID CREEK ~150 YDS UPSTREAM OF OLD BRIDGE	LAT 41.915 LONG 73.985 11:05A	DO 9.5 mg/L temperature 16.9°C	Grease NONE Floatables MODERATE NATURAL Odors	TIDE OUT EASTERLY 25 YDS SOUTHERLY OF STEEL BOILER PRETRAILER FROM WATER. WEAR ISLAND BULKHEAD
#4 MID CREEK ~200 YDS DOWNSTREAM OF NEW BRIDGE	LAT 41.919 LONG 73.479 11:20A.	DO 9.6 mg/L temperature 16.8°C	Grease NONE. Floatables LOW Odors NONE	TIDE OUT EASTERLY 50 YDS SOUTHERLY PATIO Y OF STEELHOUSE
#5 MID CREEK. UPSTREAM OF WINSTON PT. PK.	LAT 41.922 LONG 73.970 11:30A.	DO 9.6 mg/L temperature 16.9°C	Grease NONE Floatables NONE Odors NONE	TIDE OUT EAST 50 YDS SOUTHERLY CROSSING SH Y OF GAS LINE
#6 MID CREEK UNDER NEW BRIDGE	LAT 41.918 LONG 73.981 11:12A.	DO 9.8 mg/L temperature 16.5°C	Grease NONE Floatables MODERATE TO HEAVY. Odors NONE	TIDE OUT EASTERLY END OF BOAT LAUNCH MID CREEK. CLEAR WATER LY - <del>WESTERLY</del> RA - <del>40 YDS</del> 100 YDS SOUTHERLY OF ED DOUBLE SLIDE DOORS
#7 UPSTREAM OF EDDYVILLE DAM C MYSDEC BOAT LAUNCH	LAT 41.885 LONG 74.030 12:05P	DO 8.8 mg/L temperature 18.1°C	Grease NONE Floatables NONE Odors NONE	<del>PRESENT EASTERLY</del> WESTERLY FLOW EASTERLY END OF BOAT LAUNCH - MID CREEK/SITE UNFFECTED BY TIDE
#8 DUPE	SITE #3	DO temperature	Grease Floatables Odors	SITE #3



# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6538

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek  
**Sample Type:** Surface Water  
**Order comment:**  
**Order ID:** 121203

---

**Sample Number:** 215283  
**Sample Location:** Site #1, grab  
**Sample Comment:** FC rec'd at 15.1 deg C.  
**Date/Time sample collected:** 5/20/2014 10:43  
**Date/Time sample received:** 5/20/2014 15:45  
**Date/Time sample analyzed:** 5/20/2014 16:30

**Collected By:** Alan Adin  
**Received by:** Amy Jo  
**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	160	CFU/100mL	SM 18 9222D

---

\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

23-May-14

*Smith Laboratory is approved as an Environmental Testing Laboratory in conformance with the National Environmental Laboratory Accreditation Conference (NELAC) Standards. This test report pertains only to the above items analyzed on this sample as received by the laboratory. Information supplied by the client is assumed to be correct.*



# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 228-8538

## CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

Client Project Name: Rondout Creek  
Sample Type: Surface Water  
Order comment:  
Order ID: 121203

---

Sample Number: 215284  
Sample Location: Site #2, grab  
Sample Comment: FC rec'd at 16.1 deg C.  
Date/Time sample collected: 5/20/2014 10:55  
Date/Time sample received: 5/20/2014 15:45  
Date/Time sample analyzed: 5/20/2014 16:30

Collected By: Alan Adin  
Received by: Amy Jo  
Tech: SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	190	CFU/100mL	SM 18 9222D

---

\*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

23-May-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-8536

## CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

Client Project Name: Rondout Creek  
Sample Type: Surface Water  
Order comment:  
Order ID: 121203

---

Sample Number: 215285  
Sample Location: Site #3, grab  
Sample Comment: FC rec'd at 21.7 deg C.  
Date/Time sample collected: 5/20/2014 11:05  
Date/Time sample received: 5/20/2014 15:45  
Date/Time sample analyzed: 5/20/2014 16:30

Collected By: Alan Adin  
Received by: Amy Jo  
Tech: SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	100	CFU/100mL	SM 18 9222D

---

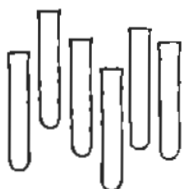
\*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

23-May-14

*Smith Laboratory is approved as an Environmental Testing Laboratory in conformance with the National Environmental Laboratory Accreditation Conference (NELAC) Standards. This test report pertains only to the above items analyzed on this sample as received by the laboratory. Information supplied by the client is assumed to be correct.*



# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

Client Project Name: Rondout Creek  
Sample Type: Surface Water  
Order comment:  
Order ID: 121203

---

Sample Number: 215286  
Sample Location: Site #4, grab  
Sample Comment: FC rec'd at 18.7 deg C.  
Date/Time sample collected: 5/20/2014 11:20  
Date/Time sample received: 5/20/2014 15:45  
Date/Time sample analyzed: 5/20/2014 16:30

Collected By: Alan Adin  
Received by: Amy Jo  
Tech: SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	110	CFU/100mL	SM 18 9222D

---

\*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

23-May-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-8536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek  
**Sample Type:** Surface Water  
**Order comment:**  
**Order ID:** 121203

---

**Sample Number:** 215287  
**Sample Location:** Site #5, grab  
**Sample Comment:** FC rec'd at 13.9 deg C.  
**Date/Time sample collected:** 5/20/2014 11:30  
**Date/Time sample received:** 5/20/2014 15:45  
**Date/Time sample analyzed:** 5/20/2014 16:30

**Collected By:** Alan Adin  
**Received by:** Amy Jo  
**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	50	CFU/100mL	SM 18 9222D

\*Bacteriological test results are expressed as Colony Forming Units.

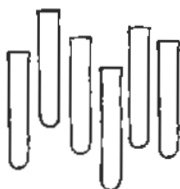
**Results Comment:**

  
Reviewed by: Lab Manager, ELAP Lab ID #10924

23-May-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-8536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek  
**Sample Type:** Surface Water  
**Order comment:**  
**Order ID:** 121203

---

**Sample Number:** 215289  
**Sample Location:** Site #7, grab  
**Sample Comment:** FC rec'd at 15.1 deg C.  
**Date/Time sample collected:** 5/20/2014 12:05  
**Date/Time sample received:** 5/20/2014 15:45  
**Date/Time sample analyzed:** 5/20/2014 18:30

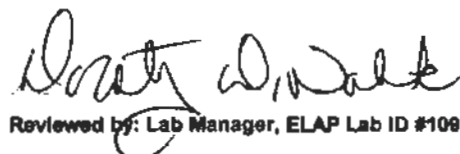
**Collected By:** Alan Adin  
**Received by:** Amy Jo  
**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	150	CFU/100mL	SM 18 9222D

\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**



Reviewed by: Lab Manager, ELAP Lab ID #10924

23-May-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-8536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
**Attn:** Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek  
**Sample Type:** Surface Water  
**Order comment:**  
**Order ID:** 121203

---

**Sample Number:** 215290  
**Sample Location:** Duplicate, grab  
**Sample Comment:** FC rec'd at 21.1 deg C.  
**Date/Time sample collected:** 5/20/2014 11:05  
**Date/Time sample received:** 5/20/2014 15:45  
**Date/Time sample analyzed:** 5/20/2014 16:30

**Collected By:** Alan Adin  
**Received by:** Amy Jo  
**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	60	CFU/100mL	SM 18 9222D

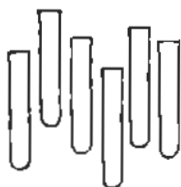
\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

23-May-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-8536

## CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

Client Project Name: Rondout Creek  
Sample Type: Water  
Order comment:  
Order ID: 121203

---

Sample Number: 215309  
Sample Location: Blank-QC  
Sample Comment: Rinsed with 100 mL buffered rinse water.  
Date/Time sample collected: 5/20/2014 16:30 Collected By:  
Date/Time sample received: 5/20/2014 16:30 Received by: Amy Jo  
Date/Time sample analyzed: 5/20/2014 16:30 Tech: SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	< 1	CFU/100mL	SM 18 9222D

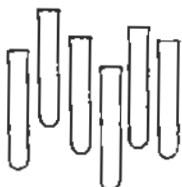
\*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

23-May-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6538

## CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO # PO#00020300-01

Client Project Name: Rondout Creek  
Sample Location: Site #1, grab  
Order comment:

Order ID: 121203 Sample Number: 215283

Sample Type: Surface Water

Sample Collected By: Alan Adin

Date/Time sample collected:

Date/Time sample received:

Received by:

5/20/2014 10:43

5/20/2014 15:45

Amy Jo

Sample Comment: FC rec'd at 15.1 deg C.

Parameter:	Test Result	Units	Test Method	Test Date/Time	Tech**
Solids, Settleable	< 0.1	mL/L	SM20 2540F	5/21/2014 11:05	LAE
Total Suspended Solids	5	mg/L	SM20 2540 D	5/21/2014	LAE

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

09-Jun-14

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ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-8536

## CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO # PO#00020300-01

Client Project Name: Rondout Creek  
Sample Location: Site #2, grab  
Order comment:

Order ID: 121203

Sample Number: 215284

Sample Type: Surface Water

Sample Collected By: Alan Adin

Date/Time sample collected:

Date/Time sample received:

Received by:

5/20/2014 10:55

5/20/2014

15:45

Amy Jo

Sample Comment: FC rec'd at 16.1 deg C.

Parameter:	Test Result	Units	Test Method	Test Date/Time	Tech**
Solids, Settleable	< 0.1	mL/L	SM20 2540F	5/21/2014 11:05	LAE
Total Suspended Solids	7	mg/L	SM20 2540 D	5/21/2014	LAE

Results Comment:

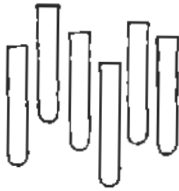
Reviewed by: Lab Manager, ELAP Lab ID #10924

09-Jun-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-8536

## CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO # PO#00020300-01

Client Project Name: Rondout Creek  
Sample Location: Site #3, grab  
Order comment:

Order ID: 121203

Sample Number: 215285

Sample Type: Surface Water

Sample Collected By: Alan Adin

Date/Time sample collected:

Date/Time sample received:

Received by:

5/20/2014 11:05

5/20/2014 15:45

Amy Jo

Sample Comment: FC rec'd at 21.7 deg C.

Parameter:	Test Result	Units	Test Method	Test Date/Time	Tech**
Solids, Settleable	< 0.1	mL/L	SM20 2540F	5/21/2014 11:05	LAE
Total Suspended Solids	2	mg/L	SM20 2540 D	5/21/2014	LAE

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

09-Jun-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-8536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston NY 12401  
**PO #** PO#00020300-01

---

**Client Project Name:** Rondout Creek  
**Sample Location:** Site #4, grab  
**Order comment:**

---

**Order ID:** 121203 **Sample Number:** 215266 **Sample Type:** Surface Water

---

**Sample Collected By:** Alan Adin  
**Date/Time sample collected:** 5/20/2014 11:20  
**Date/Time sample received:** 5/20/2014 15:45  
**Received by:** Amy Jo  
**Sample Comment:** FC rec'd at 18.7 deg C.

Parameter:	Test Result	Units	Test Method	Test Date/Time	Tech**
Solids, Settleable	< 0.1	mL/L	SM20 2540F	5/21/2014 12:15	LAE
Total Suspended Solids	6	mg/L	SM20 2540 D	5/21/2014	LAE

**Results Comment:**

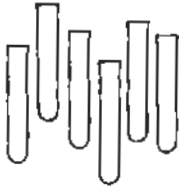
**Reviewed by:** Lab Manager, ELAP Lab ID #10924

09-Jun-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-8538

## CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO # PO#00020300-01

Client Project Name: Rondout Creek  
Sample Location: Site #5, grab  
Order comment:

Order ID: 121203 Sample Number: 215287

Sample Type: Surface Water

Sample Collected By: Alan Adin

Date/Time sample collected:

Date/Time sample received:

Received by:

5/20/2014 11:30

5/20/2014 15:45

Amy Jo

Sample Comment: FC rec'd at 13.9 deg C.

Parameter:	Test Result	Units	Test Method	Test Date/Time	Tech**
Solids, Settleable	< 0.1	mL/L	SM20 2540F	5/21/2014 12:15	LAE
Total Suspended Solids	2	mg/L	SM20 2540 D	5/21/2014	LAE

Results Comment:

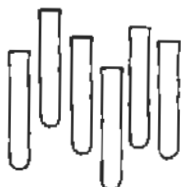
Reviewed by: Lab Manager, ELAP Lab ID #10924

09-Jun-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-8536

## CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO # PO#00020300-01

Client Project Name: Rondout Creek  
Sample Location: Site #6, grab  
Order comment:

Order ID: 121203

Sample Number: 215288

Sample Type: Surface Water

Sample Collected By: Alan Adin

Date/Time sample collected:

Date/Time sample received:

Received by:

5/20/2014 11:12

5/20/2014 15:45

Amy Jo

Sample Comment: FC rec'd at 20.7 deg C.

Parameter:	Test Result	Units	Test Method	Test Date/Time	Tech**
Solids, Settleable	< 0.1	mL/L	SM20 2540F	5/21/2014 12:15	LAE
Total Suspended Solids	1	mg/L	SM20 2540 D	5/21/2014	LAE

Results Comment:

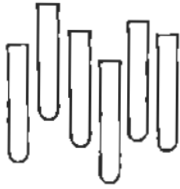
Reviewed by: Lab Manager, ELAP Lab ID #10924

09-Jun-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-8536

## CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO # PO#00020300-01

Client Project Name: Rondout Creek  
Sample Location: Site #7, grab  
Order comment:

Order ID: 121203 Sample Number: 215289

Sample Type: Surface Water

Sample Collected By: Alan Adin

Date/Time sample collected:

Date/Time sample received:

Received by:

5/20/2014 12:05

5/20/2014 15:45

Amy Jo

Sample Comment: FC rec'd at 15.1 deg C.

Parameter:	Test Result	Units	Test Method	Test Date/Time	Tech**
Solids, Settleable	< 0.1	mL/L	SM20 2540F	5/21/2014 12:15	LAE
Total Suspended Solids	3	mg/L	SM20 2540 D	5/21/2014	LAE

Results Comment:

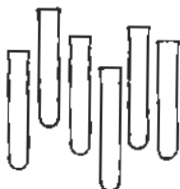
Reviewed by: Lab Manager, ELAP Lab ID #10924

09-Jun-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6538

## CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO # PO#00020300-01

Client Project Name: Rondout Creek  
Sample Location: Duplicate, grab  
Order comment:

Order ID: 121203

Sample Number: 215290

Sample Type: Surface Water

Sample Collected By: Alan Adin

Date/Time sample collected:

Date/Time sample received:

Received by:

5/20/2014 11:05

5/20/2014

15:45

Amy Jo

Sample Comment: FC rec'd at 21.1 deg C.

Parameter:	Test Result	Units	Test Method	Test Date/Time	Tech**
Solids, Settleable	< 0.1	mL/L	SM20 2540F	5/21/2014 12:15	LAE
Total Suspended Solids	3	mg/L	SM20 2540 D	5/21/2014	LAE

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

09-Jun-14

Key: < = less than; A=Analysis performed over holding time; C=degrees Celsius; B=BOD blank depletion was greater than 0.2 mg/L; D=Elevated reporting limit; Est=Estimated Value; H=Sample received over analysis holding time; J=Result estimated below quantitation limit; MCL=New York State Maximum Contaminant Level; MDL=Method Detection Limit; mg/kg=milligrams per kilogram dry weight; mg/L=milligrams per Liter; mL/L=milliliters per Liter; ND=Not Detected; NTU=Nephelometric Turbidity Units; PtCo=Platinum Cobalt Units; Q=Not all QC data met acceptance criteria; SI = Saturation Index; SU=Standard pH Units; TON=Threshold Odor Number at 44.5 degrees C; ug/L-micrograms per Liter; umho/cm=micromhos per centimeter; V=Value above quantitation range; \*ELAP/NELAC does not offer certification for this analyte; \*\*ELAP ID is listed for sub-contract laboratory

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initials:

AJA

Date: 5.27.14

Page \_\_\_ of \_\_\_

Sampling Team:

A. ADIN/R SWENSON/A. WINCHELL

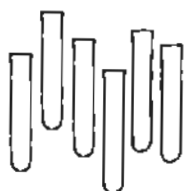
Weather:

MOSTLY SUNNY

Temperature: HIGH 70° LOW 80°

Direction of Flow:

Sampling Location	Time	Field Parameter	Physical Observations	Comments
#1 - MID ROUNDT CREEK - WEST 20 YDS UPSTREAM OF MILLER OUTFALL	LAT 41.906 LONG 74.004 11:42 A.	DO 8.9 mg/L temperature 21.4°C	Grease NONE Floatables MODERATE Odors NONE	TIDE - <del>WESTERLY</del> EASTERLY SLACK 10 YDS WESTERLY OF FEENEY DRY DOCK VEGETATIVE MATTER - SMALL
#2 - MID ROUNDT CREEK - UPSTREAM OF BLOCK PARK	LAT 41.912 LONG 73.992 11:54 A.	DO 8.8 mg/L temperature 21.9°C	Grease NONE Floatables LIGHT Odors NONE	TIDE - <del>WESTERLY</del> EASTERLY SLACK 50 YDS SOUTHERLY OF CAUSEWAY CULVERTS VEGETATIVE MATTER
#3 - MID ROUNDT CREEK - 150 YDS UPSTREAM OF OLD BRIDGE	LAT 41.9144 LONG 73.985 12:01 PM	DO 8.9 mg/L temperature 21.0°C	Grease NONE Floatables LIGHT Odors NONE	TIDE - <del>WESTERLY</del> EASTERLY SLACK 25 YDS SOUTHERLY OF STEEL BOILER PROTRUDING FROM WATER NEAR ISLAND ROCK VEGETATIVE MATTER
#4 - MID CREEK ROUNDT - 200 YDS DOWNSTREAM OF NEW BRIDGE	LAT 41.919 LONG 73.979 12:12 PM	DO 9.2 mg/L temperature 20.8°C	Grease NONE Floatables LIGHT Odors NONE	TIDE - <del>WESTERLY</del> EASTERLY SLACK 50 YDS SOUT STEEL BOILER STEEL HOUSE STEEL HOUSE
#5 - MID ROUNDT CREEK - UPSTREAM OF KINGSTON PT. PK	LAT 41.922 LONG 73.969 12:22 P <del>12:25 PM</del>	DO 8.3 mg/L temperature 21.1°C	Grease NONE Floatables MODERATE Odors	TIDE - <del>WESTERLY</del> EASTERLY SLACK 50 YDS SOUT STEEL BOILER LINE CROSSING
#6 - MID ROUNDT CREEK - UNDER NEW BRIDGE	LAT 41.917 LONG 73.981 12:07 PM	DO 9.1 mg/L temperature 20.8°C	Grease NONE Floatables LIGHT Odors NONE	TIDE - <del>WESTERLY</del> EASTERLY SLACK 50 YDS SOUT STEEL BOILER VEG. MAT
#7 - UPSTREAM OF EDDYVILLE DAM & MYSPEC BOX LAUNCH	LAT 41.885 LONG 74.050 1:05 P <del>1:05 PM</del>	DO 8.5 mg/L temperature 21.0°C	Grease NONE Floatables MODERATE Odors NONE	TIDE - <del>WESTERLY</del> EASTERLY SLACK 50 YDS SOUT STEEL BOILER VEG. MAT
DUPE	SITE #4	DO temperature	Grease Floatables Odors	SITE #4 BOAT LAUNCH - MID SITE UN- EFFECTED BY TIDE



# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-8536

## CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PD #

---

Client Project Name: Rondout Creek  
Sample Type: Surface Water  
Order comment:  
Order ID: 121320

---

Sample Number: 215527  
Sample Location: Site #1, grab  
Sample Comment: FC rec'd at 16.6 deg C  
Date/Time sample collected: 5/27/2014 11:42 Collected By: Alan Adin  
Date/Time sample received: 5/27/2014 14:40 Received by: Karolina  
Date/Time sample analyzed: 5/27/2014 15:50 Tech: SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	30	CFU/100mL	SM 18 9222D

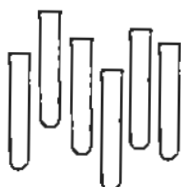
\*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

30-May-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-8536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek  
**Sample Type:** Surface Water  
**Order comment:**  
**Order ID:** 121320

---

**Sample Number:** 215528  
**Sample Location:** Site #2, grab  
**Sample Comment:** FC rec'd at 15.6 deg C  
**Date/Time sample collected:** 5/27/2014 11:54  
**Date/Time sample received:** 5/27/2014 14:40  
**Date/Time sample analyzed:** 5/27/2014 15:50

**Collected By:** Alan Adin  
**Received by:** Karolina  
**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	20	CFU/100mL	SM 18 9222D

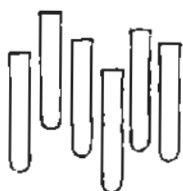
\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

30-May-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office

Attn: Alan Adin

420 Broadway

Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek

**Sample Type:** Surface Water

**Order comment:**

**Order ID:** 121320

---

**Sample Number:** 215529

**Sample Location:** Site #3, grab

**Sample Comment:** FC rec'd at 17.6 deg C

**Date/Time sample collected:** 5/27/2014 12:01

**Collected By:** Alan Adin

**Date/Time sample received:** 5/27/2014 14:40

**Received by:** Karolina

**Date/Time sample analyzed:** 5/27/2014 15:50

**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	40	CFU/100mL	SM 18 9222D

\*Bacteriological test results are expressed as Colony Forming Units.

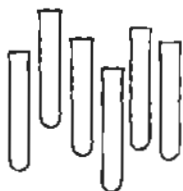
**Results Comment:**

**Reviewed by:** Lab Manager, ELAP Lab ID #10924

30-May-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6538

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek  
**Sample Type:** Surface Water  
**Order comment:**  
**Order ID:** 121320

---

**Sample Number:** 215531  
**Sample Location:** Site #5, grab  
**Sample Comment:** FC rec'd at 17.3 deg C  
**Date/Time sample collected:** 5/27/2014 12:22  
**Date/Time sample received:** 5/27/2014 14:40  
**Date/Time sample analyzed:** 5/27/2014 15:50

**Collected By:** Alan Adin  
**Received by:** Karolina  
**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	180	CFU/100mL	SM 18 9222D

---

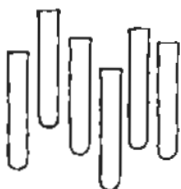
\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

30-May-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6538

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek  
**Sample Type:** Surface Water  
**Order comment:**  
**Order ID:** 121320

---

**Sample Number:** 215532  
**Sample Location:** Site #6, grab  
**Sample Comment:** FC rec'd at 15.3 deg C  
**Date/Time sample collected:** 5/27/2014 12:07  
**Date/Time sample received:** 5/27/2014 14:40  
**Date/Time sample analyzed:** 5/27/2014 15:50

**Collected By:** Alan Adin  
**Received by:** Karolina  
**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	30	CFU/100mL	SM 18 9222D

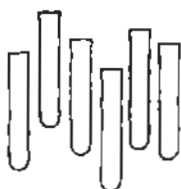
\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

  
Reviewed by: Lab Manager, ELAP Lab ID #10924

30-May-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-8538

## CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

Client Project Name: Rondout Creek  
Sample Type: Surface Water  
Order comment:  
Order ID: 121320

Sample Number: 215533  
Sample Location: Site #7, grab  
Sample Comment: FC rec'd at 14.8 deg C  
Date/Time sample collected: 5/27/2014 13:05  
Date/Time sample received: 5/27/2014 14:40  
Date/Time sample analyzed: 5/27/2014 15:50

Collected By: Alan Adin  
Received by: Karolina  
Tech: SS

Parameter	Test Result*	Units	Test Method
Fecal Coliform	40	CFU/100mL	SM 18 9222D

\*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

30-May-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6538

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek  
**Sample Type:** Surface Water  
**Order comment:**  
**Order ID:** 121320

---

**Sample Number:** 215534  
**Sample Location:** Duplicate, grab  
**Sample Comment:** FC rec'd at 17.0 deg C  
**Date/Time sample collected:** 5/27/2014 12:12  
**Date/Time sample received:** 5/27/2014 14:40  
**Date/Time sample analyzed:** 5/27/2014 15:50

**Collected By:** Alan Adin  
**Received by:** Karolina  
**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	100	CFU/100mL	SM 18 9222D

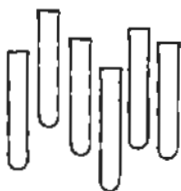
\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

30-May-14

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(845) 229-6538

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek  
**Sample Type:** Water  
**Order comment:**  
**Order ID:** 121320

---

**Sample Number:** 215728  
**Sample Location:** Blank-QC  
**Sample Comment:** 100 mL buffered rinse water used  
**Date/Time sample collected:** 5/27/2014 15:50  
**Date/Time sample received:** 5/27/2014 15:50  
**Date/Time sample analyzed:** 5/27/2014 15:50

**Collected By:**  
**Received by:** Karolina  
**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	< 1	CFU/100mL	SM 18 9222D

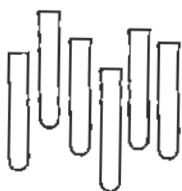
\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

  
**Reviewed by:** Lab Manager, ELAP Lab ID #10924

30-May-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-8536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston NY 12401

**PO #**

**Client Project Name:** Rondout Creek  
**Sample Location:** Site #1, grab  
**Order comment:**

**Order ID:** 121320

**Sample Number:** 215527

**Sample Type:** Surface Water

**Sample Collected By:** Alan Adin

**Date/Time sample collected:**

**Date/Time sample received:**

**Received by:**

5/27/2014 11:42

5/27/2014 14:40

Karolina

**Sample Comment:** FC rec'd at 16.6 deg C

Parameter:	Test Result	Units	Test Method	Test Date/Time	Tech**
Solids, Settleable	< 0.1	mL/L	SM20 2540F	5/28/2014 17:00	LAE
Total Suspended Solids	< 1	mg/L	SM20 2540 D	5/29/2014	SW

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

11-Jun-14

Key: <=Less than; A=Analysis performed over holding time; B=BOD blank depletion was greater than 0.2 mg/L; C=degrees Celsius; D=Elevated reporting limit; Est=Estimated Value; H=Sample received over analysis holding time; J=Result estimated below quantitation limit; MCL=New York State Maximum Contaminant Level; MDL=Method Detection Limit; mg/kg=milligrams per kilogram dry weight; mg/L=milligrams per Liter; mL/L=milliliters per Liter; ND=Not Detected; NTU=Nephelometric Turbidity Units; PtCo=Platinum Cobalt Units; Q=Not all QC data met acceptance criteria; SI = Saturation Index; SU=Standard pH Units; T.O.N.=Threshold Odor Number at 60 degrees C; ug/L-micrograms per Liter, umho/cm=micromhos per centimeter; V=Value above quantitation range; \*ELAP/NELAC does not offer certification for this analyte; \*\*ELAP ID is listed for sub-contract laboratory

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-8536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston NY 12401

**PO #**

**Client Project Name:** Rondout Creek  
**Sample Location:** Site #2, grab  
**Order comment:**

**Order ID:** 121320

**Sample Number:** 215528

**Sample Type:** Surface Water

**Sample Collected By:** Alan Adin

**Date/Time sample collected:**

**Date/Time sample received:**

**Received by:**

5/27/2014 11:54

5/27/2014 14:40

Karolina

**Sample Comment:** FC rec'd at 15.6 deg C

Parameter:	Test Result	Units	Test Method	Test Date/Time	Tech**
Solids, Settleable	< 0.1	mL/L	SM20 2540F	5/28/2014 17:00	LAE
Total Suspended Solids	3	mg/L	SM20 2540 D	5/29/2014	SW

**Results Comment:**

**Reviewed by:** Lab Manager, ELAP Lab ID #10924

11-Jun-14

Key: < = less than; A=Analysis performed over holding time; B=BOD blank depletion was greater than 0.2 mg/L;  
C=degrees Celsius; D=Elevated reporting limit; Est=Estimated Value; H=Sample received over analysis holding time;  
J=Result estimated below quantitation limit; MCL=New York State Maximum Contaminant Level; MDL=Method Detection  
Limit; mg/kg=milligrams per kilogram dry weight; mg/L=milligrams per Liter; mL/L=milliliters per Liter; ND=Not Detected;  
NTU=Nephelometric Turbidity Units; PtCo=Platinum Cobalt Units; Q=Not all QC data met acceptance criteria; SI =  
Saturation Index; SU=Standard pH Units; T.O.N.=Threshold Odor Number at 60 degrees C; ug/L=micrograms per Liter;  
umho/cm=micromhos per centimeter; V=Value above quantitation range; \*ELAP/NELAC does not offer certification for this  
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ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12536  
(845) 229-8536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston NY 12401

**PO #**

**Client Project Name:** Rondout Creek

**Sample Location:** Site #3, grab

**Order comment:**

**Order ID:** 121320

**Sample Number:** 215529

**Sample Type:** Surface Water

**Sample Collected By:** Alan Adin

**Date/Time sample collected:**

**Date/Time sample received:**

**Received by:**

5/27/2014 12:01

5/27/2014 14:40

Karolina

**Sample Comment:** FC rec'd at 17.6 deg C

Parameter:	Test Result	Units	Test Method	Test Date/Time	Tech**
Solids, Settleable	< 0.1	mL/L	SM20 2540F	5/28/2014 17:00	LAE
Total Suspended Solids	2	mg/L	SM20 2540 D	5/29/2014	SW

**Results Comment:**

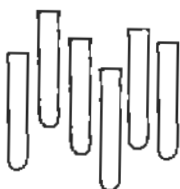
**Reviewed by:** Lab Manager, ELAP Lab ID #10924

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY

12401

PO #

**Client Project Name:** Rondout Creek

**Sample Location:** Site #4, grab

**Order comment:**

**Order ID:** 121320

**Sample Number:** 215530

**Sample Type:** Surface Water

**Sample Collected By:** Alan Adin

**Date/Time sample collected:**

5/27/2014 12:12

**Date/Time sample received:**

5/27/2014 14:40

**Received by:**

Karolina

**Sample Comment:** FC rec'd at 15.8 deg C

Parameter:	Test Result	Units	Test Method	Test Date/Time	Tech**
Solids, Settleable	< 0.1	mL/L	SM20 2540F	5/28/2014 17:00	LAE
Total Suspended Solids	3	mg/L	SM20 2540 D	5/29/2014	SW

**Results Comment:**

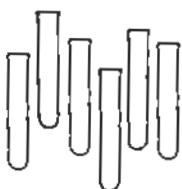
**Reviewed By:** Lab Manager, ELAP Lab ID #10924

11-Jun-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-8538

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston NY 12401 PO #

**Client Project Name:** Rondout Creek  
**Sample Location:** Site #5, grab  
**Order comment:**

**Order ID:** 121320 **Sample Number:** 215531 **Sample Type:** Surface Water

**Sample Collected By:** Alan Adin  
**Date/Time sample collected:** 5/27/2014 12:22 **Date/Time sample received:** 5/27/2014 14:40 **Received by:** Karolina  
**Sample Comment:** FC rec'd at 17.3 deg C

Parameter:	Test Result	Units	Test Method	Test Date/Time	Tech**
Solids, Settleable	< 0.1	mL/L	SM20 2540F	5/28/2014 17:00	LAE
Total Suspended Solids	14	mg/L	SM20 2540 D	5/29/2014	SW

**Results Comment:**

  
Reviewed by: Lab Manager, ELAP Lab ID #10924

11-Jun-14

Key: < = less than; A=Analysis performed over holding time; B=BOD blank depletion was greater than 0.2 mg/L, C=degrees Celsius; D=Elevated reporting limit; Est=Estimated Value; H=Sample received over analysis holding time, J=Result estimated below quantitation limit; MCL=New York State Maximum Contaminant Level, MDL=Method Detection Limit; mg/kg=milligrams per kilogram dry weight, mg/L=milligrams per Liter; mL/L=milliliters per Liter; ND=Not Detected; NTU=Nephelometric Turbidity Units; PtCo=Platinum Cobalt Units; Q=Not all QC data met acceptance criteria; SI = Saturation Index; SU=Standard pH Units; T.O.N.=Threshold Odor Number at 60 degrees C; ug/L=micrograms per Liter, umho/cm=micromhos per centimeter, V=Value above quantitation range; \*ELAP/NELAC does not offer certification for this analyte; \*\*ELAP ID is listed for sub-contract laboratory

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Total number of pages in this report, including chain of custody, is 9



# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY

12401

PO #

**Client Project Name:** Rondout Creek

**Sample Location:** Site #6, grab

**Order comment:**

**Order ID:** 121320

**Sample Number:** 215532

**Sample Type:** Surface Water

**Sample Collected By:** Alan Adin

**Date/Time sample collected:**

5/27/2014 12:07

**Date/Time sample received:**

5/27/2014 14:40

**Received by:**

Karolina

**Sample Comment:** FC rec'd at 15.3 deg C

Parameter:	Test Result	Units	Test Method	Test Date/Time	Tech**
Solids, Settleable	< 0.1	mL/L	SM20 2540F	5/28/2014 17:00	LAE
Total Suspended Solids	< 1	mg/L	SM20 2540 D	5/29/2014	SW

**Results Comment:**

**Reviewed by:** Lab Manager, ELAP Lab ID #10924

11-Jun-14

Key: < = less than; A=Analysis performed over holding time; B=BOD blank depletion was greater than 0.2 mg/L; C=degrees Celsius; D=Elevated reporting limit; Est=Estimated Value; H=Sample received over analysis holding time; J=Result estimated below quantitation limit; MCL=New York State Maximum Contaminant Level; MDL=Method Detection Limit, mg/kg=milligrams per kilogram dry weight; mg/L=milligrams per Liter; mL/L=milliliters per Liter; ND=Not Detected; NTU=Nephelometric Turbidity Units; PtCo=Platinum Cobalt Units; Q=Not all QC data met acceptance criteria; SI = Saturation Index; SU=Standard pH Units; T.O.N.=Threshold Odor Number at 60 degrees C; ug/L=micrograms per Liter, umho/cm=micromhos per centimeter; V=Value above quantitation range; \*ELAP/NELAC does not offer certification for this analyte; \*\*ELAP ID is listed for sub-contract laboratory

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6538

## CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY

12401

PO #

Client Project Name: Rondout Creek

Sample Location: Site #7, grab

Order comment:

Order ID: 121320

Sample Number: 215533

Sample Type: Surface Water

Sample Collected By: Alan Adin

Date/Time sample collected:

5/27/2014 13:05

Date/Time sample received:

5/27/2014 14:40

Received by:

Karolina

Sample Comment: FC rec'd at 14.8 deg C

Parameter:	Test Result	Units	Test Method	Test Date/Time	Tech**
Solids, Settleable	< 0.1	mL/L	SM20 2540F	5/29/2014 10:00	LAE
Total Suspended Solids	3	mg/L	SM20 2540 D	5/29/2014	SW

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

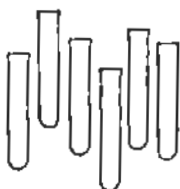
11-Jun-14

Key: < = less than; A=Analysis performed over holding time; B=BOD blank depletion was greater than 0.2 mg/L; C=degrees Celsius; D=Elevated reporting limit; Est=Estimated Value; H=Sample received over analysis holding time; J=Result estimated below quantitation limit; MCL=New York State Maximum Contaminant Level; MDL=Method Detection Limit; mg/kg=milligrams per kilogram dry weight; mg/L=milligrams per Liter; mL/L=milliliters per Liter; ND=Not Detected; NTU=Nephelometric Turbidity Units; PtCo=Platinum Cobalt Units; Q=Not all QC data met acceptance criteria; SI = Saturation Index; SU=Standard pH Units; T.O.N.=Threshold Odor Number at 60 degrees C; ug/L=micrograms per Liter; umho/cm=micromhos per centimeter; V=Value above quantitation range; \*ELAP/NELAC does not offer certification for this analyte; \*\*ELAP ID is listed for sub-contract laboratory

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9



# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston NY 12401

**PO #**

**Client Project Name:** Rondout Creek  
**Sample Location:** Duplicate, grab  
**Order comment:**

**Order ID:** 121320

**Sample Number:** 215534

**Sample Type:** Surface Water

**Sample Collected By:** Alan Adin

**Date/Time sample collected:**

**Date/Time sample received:**

**Received by:**

5/27/2014 12:12

5/27/2014 14:40

Karolina

**Sample Comment:** FC rec'd at 17.0 deg C

Parameter:	Test Result	Units	Test Method	Test Date/Time	Tech**
Solids, Settleable	< 0.1	mL/L	SM20 2540F	5/29/2014 10:00	LAE
Total Suspended Solids	4	mg/L	SM20 2540 D	5/29/2014	SW

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

11-Jun-14

Key: < = less than; A=Analysis performed over holding time; B=BOD blank depletion was greater than 0.2 mg/L; C=degrees Celsius; D=Elevated reporting limit; Est=Estimated Value; H=Sample received over analysis holding time; J=Result estimated below quantitation limit; MCL=New York State Maximum Contaminant Level; MDL=Method Detection Limit; mg/kg=milligrams per kilogram dry weight; mg/L=milligrams per Liter; mL/L=milliliters per Liter; ND=Not Detected; NTU=Nephelometric Turbidity Units; PtCo=Platinum Cobalt Units; Q=Not all QC data met acceptance criteria; SI = Saturation Index; SU=Standard pH Units; T.O.N.=Threshold Odor Number at 60 degrees C; ug/L-micrograms per Liter, umho/cm=micromhos per centimeter; V=Value above quantitation range; \*ELAP/NELAC does not offer certification for this analyte; \*\*ELAP ID is listed for sub-contract laboratory

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Total number of pages in this report, including chain of custody, is 9

EMAIL: rswenson@kingston-ny.gov

<b>SMITH LABORATORY</b> 4 Scenic Drive Hyde Park, NY 12538-1313 Phone: 845-229-6536 Fax: 845-229-6538		<b>CHAIN OF CUSTODY</b>  Turnaround Time: Standard <input checked="" type="checkbox"/> <b>RUSH</b> <input type="checkbox"/> (Rush surcharge applies) ** Date report requested: _____	
Copy results to Local Health Dept. Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Login Review: Amt Due: Amt Paid: Pmt Method : Receipt No:	

Client Name: CITY OF KINGSTON      Client Phone No: 845-334-3968      Project/Facility Name: RONDOUT CREEK  
 Mailing Address: 420 BROADWAY      Client Fax No.: \_\_\_\_\_      Location: \_\_\_\_\_  
KINGSTON, NY 12401      Copy Report To: RALPH SWENSON      PWS Fed ID No: NY-\_\_\_\_\_

**LAB USE ONLY**

**CLIENT: COMPLETE THE SAMPLE INFORMATION IN THE SPACE PROVIDED BELOW**

**LAB USE ONLY**

Order ID No: Sample No:	Sample Identification & Sample Point	Matrix	(Check One)			Treatment Type & Residual	Date/Time Sampled	Analysis Requested	Container & Preservative	Iced Y/N	Sample Temp, Deg C	Pres. at Lab Y/N
			Grab	Comp # hrs	First Draw							
121320							5-27-14					
215527	SITE #1	SW	X				11:42A	SS/TSS	1-2-1LPLAS 1-1/2 L PLAST	Y	17.6	N
215528	SITE #2	SW	X				11:54A	SS/TSS	1-2-1LPLAS 1-1/2 L PLAST	Y	13.4	
215529	SITE #3	SW	X				12:01P	SS/TSS	1-2-1LPLAS 1-1/2 L PLAST		14.8	
215530	SITE #4	SW	X				12:12P	SS/TSS	1-2-1LPLAS 1-1/2 L PLAST		18.1	
215531	SITE #5	SW	X			12:22P	1:05P	SS/TSS	1-2-1LPLAS 1-1/2 L PLAST		18.4	
215532	SITE #6	SW	X				12:07P	SS/TSS	1-2-1LPLAS 1-1/2 L PLAST		14.8	
215533	SITE #7	SW	X				1:05P	SS/TSS	1-2-1LPLAS 1-1/2 L PLAST		18.1	
215534	DUPLICATE SITE #4	SW	X				12:12P	SS/TSS	1-1L PLAS 1-1/2 L PLAST	Y	18.1	Y

Sampled By: (Name) ALAN ADIN (Title) ENGINEERING TECH I hereby affirm that the information above is true and complete to the best of my knowledge. I also affirm that I am responsible for payment, unless other payment arrangements are approved in advance by Smith Laboratory.

Sample Relinquished By: ALAN ADIN      Received By: \_\_\_\_\_      Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Sample Relinquished By: \_\_\_\_\_      Received at Lab By: Kimberly      Date: 5/27/14 Time: 2:40pm

Sample(s) received met the following requirements

Thermal Preservation: NA ☒ Yes ☐ No

Chemical Preservation: NA ☒ Yes ☐ No

Correct Bottle Type ☒ Yes ☐ No

Other \_\_\_\_\_

Comments: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Initials:

RAB

Date:

JUNE 3 2014

Page \_\_\_ of \_\_\_

Sampling Team:

ALAN ALAN RAB

Weather:

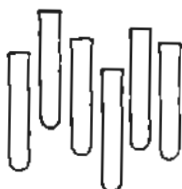
CLEAR SUNNY CALM

Temperature: 70's

Direction of Flow:

OUT EASTERLY

Sampling Location	Time	Field Parameter	Physical Observations	Comments
SITE #1: MID-RONOUT CREEK APPROX. 250 YDS UPSTREAM OF WILBUR AVE. OUTFALL	LATITUDE: 41.9064 LONGITUDE: 74.0043 9:25 AM	DO 8.6 temperature 22.3 °C	Grease NONE Floatables Odors	TIDE: OUT APPROX. 15 YDS WE DOCK AT PROPERTY FEENEY AND RECYCLI / OF FEENEY DRY RY BETWEEN VESS
SITE #2: MID-RONOUT CREEK - UPSTREAM OF BLOCK PARK	LAT: 41.9126 LONG: 73.9721 9:40 AM	DO 8.7 temperature 21.1 °C	Grease NONE Floatables Odors	TIDE: OUT 50 YDS SOUTHER CAUSEWAY CURVE ISLAND DOCK
SITE #3: MID-RONOUT CREEK APPROX. 150 YDS UPSTREAM OF OLD BRIDGE	LAT: 41.9145 LONG: 73.9847 9:47 AM	DO 8.7 temperature 21.7 °C	Grease NONE Floatables LIGHT Odors NONE	TIDE: OUT 25 YDS SOUTHER BOILER PROTRUDIA ISLAND DOCK BULKH VEGETAT OLD STEEL M. WATER NEAR MATTER
SITE #6: MID-RONOUT CREEK UNDER NEW BRIDGE	LAT: 41.9178 LONG: 73.9812 9:55 AM	DO 8.8 temperature 21.4 °C	Grease NONE Floatables LIGHT Odors NONE	TIDE: OUT 50 YDS SOUTHER MAINTENANCE SHEI VEGETATIVE CLEARWATER LE SLIDE DOORS ITER
SITE #4: MID-RONOUT CREEK APPROX. 200 YDS DOWNSTREAM OF NEW BRIDGE	LAT: 41.9192 LONG: 73.9790 9:59 AM	DO 8.6 temperature 21.2 °C	Grease NONE Floatables LIGHT Odors NONE	TIDE: OUT 50 YDS SOUTHER RESTAURANT COVE VEGETATION STEELHOUSE PATIO ITER
SITE #5: MID-RONOUT CREEK UPSTREAM OF BLOCK PARK	LAT: 41.9220 LONG: 73.9695 10:05 AM	DO 8.7 temperature 21.4 °C	Grease NONE Floatables LIGHT Odors NONE	TIDE: OUT 50 YDS SOUTHER CROSSING WARMIN VEGETATIVE SAS LINE N ITER
SITE #7: MID-RONOUT CREEK APPROX. 3/4 MILE UPSTREAM OF EDDYVILLE DAM AT NYSDEC BOAT LAUNCH	LAT: 41.895 LONG: 74.030 10:35 A	DO 8.0 temperature 22.5	Grease NONE Floatables LIGHT Odors NONE	FLOW: ALWAYS EASTE NOT TIDAL. STRAIGH END BOAT LAUNCH VEGETATIN DOWNSTREAM) - LOCATION FROM WESTERLY ITER
DUPLICATE #5	LAT: 41.9220 LONG: 73.9695 10:05 AM	DO 8.7 temperature 21.4 °C	Grease NONE Floatables LIGHT Odors NONE	522 #5 WATER



# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office

Attn: Alan Adin

420 Broadway

Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek

**Sample Type:** Surface Water

**Order comment:**

**Order ID:** 121504

---

**Sample Number:** 215854

**Sample Location:** Site #1, grab

**Sample Comment:** FC rec'd at 19.4 deg C.

**Date/Time sample collected:** 6/3/2014 9:25

**Collected By:** Alan Adin

**Date/Time sample received:** 6/3/2014 11:45

**Received by:** Amy Jo

**Date/Time sample analyzed:** 6/3/2014 15:00

**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	60	CFU/100mL	SM 18 9222D

\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

07-Jun-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-8536

## CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

Attn: Alan Adin

420 Broadway

Kingston

NY 12401

PO #

Client Project Name: Rondout Creek

Sample Type: Surface Water

Order comment:

Order ID: 121504

Sample Number: 215855

Sample Location: Site #2, grab

Sample Comment: FC rec'd at 16.5 deg C.

Date/Time sample collected: 6/3/2014 9:40

Collected By: Alan Adin

Date/Time sample received: 6/3/2014 11:45

Received by: Amy Jo

Date/Time sample analyzed: 6/3/2014 15:00

Tech: SS

Parameter	Test Result*	Units	Test Method
Fecal Coliform	< 10	CFU/100mL	SM 18 9222D

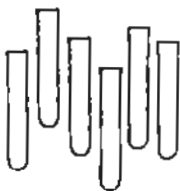
\*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

07-Jun-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-8536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek  
**Sample Type:** Surface Water  
**Order comment:**  
**Order ID:** 121504

---

**Sample Number:** 215856  
**Sample Location:** Site #3, grab  
**Sample Comment:** FC rec'd at 16.4 deg C.  
**Date/Time sample collected:** 6/3/2014 9:47  
**Date/Time sample received:** 6/3/2014 11:45  
**Date/Time sample analyzed:** 6/3/2014 15:00

**Collected By:** Alan Adin  
**Received by:** Amy Jo  
**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	40	CFU/100mL	SM 18 9222D

\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

  
Reviewed by: Lab Manager, ELAP Lab ID #10924

07-Jun-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office

Attn: Alan Adin

420 Broadway

Kingston

NY 12401

PO #

**Client Project Name:** Rondout Creek

**Sample Type:** Surface Water

**Order comment:**

**Order ID:** 121504

**Sample Number:** 215857

**Sample Location:** Site #4, grab

**Sample Comment:** FC rec'd at 18.2 deg C.

**Date/Time sample collected:** 6/3/2014 9:59

**Collected By:** Alan Adin

**Date/Time sample received:** 6/3/2014 11:45

**Received by:** Amy Jo

**Date/Time sample analyzed:** 6/3/2014 15:00

**Tech:** SS

Parameter	Test Result*	Units	Test Method
Fecal Coliform	20	CFU/100mL	SM 18 9222D

\*Bacteriological test results are expressed as Colony Forming Units.

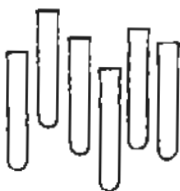
**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

07-Jun-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6538

## CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

Client Project Name: Rondout Creek  
Sample Type: Surface Water  
Order comment:  
Order ID: 121504

---

Sample Number: 215858  
Sample Location: Site #5, grab  
Sample Comment: FC rec'd at 19.6 deg C.  
Date/Time sample collected: 6/3/2014 10:05 Collected By: Alan Adin  
Date/Time sample received: 6/3/2014 11:45 Received by: Amy Jo  
Date/Time sample analyzed: 6/3/2014 15:00 Tech: SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	< 10	CFU/100mL	SM 18 9222D

\*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by Lab Manager, ELAP Lab ID #10924

07-Jun-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office

Attn: Alan Adin

420 Broadway

Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek

**Sample Type:** Surface Water

**Order comment:**

**Order ID:** 121504

---

**Sample Number:** 215859

**Sample Location:** Site #6, grab

**Sample Comment:** FC rec'd at 21.0 deg C.

**Date/Time sample collected:** 6/3/2014 9:55

**Collected By:** Alan Adin

**Date/Time sample received:** 6/3/2014 11:45

**Received by:** Amy Jo

**Date/Time sample analyzed:** 6/3/2014 15:00

**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	10	CFU/100mL	SM 18 9222D

\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

07-Jun-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6538

## CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

Client Project Name: Rondout Creek  
Sample Type: Surface Water  
Order comment:  
Order ID: 121504

Sample Number: 215860  
Sample Location: Site #7, grab  
Sample Comment: FC rec'd at 21.8 deg C.  
Date/Time sample collected: 6/3/2014 10:35 Collected By: Alan Adin  
Date/Time sample received: 6/3/2014 11:45 Received by: Amy Jo  
Date/Time sample analyzed: 6/3/2014 15:00 Tech: SS

Parameter	Test Result*	Units	Test Method
Fecal Coliform	10	CFU/100mL	SM 18 9222D

\*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

  
Reviewed by: Lab Manager, ELAP Lab ID #10924

07-Jun-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-8536

## CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

Client Project Name: Rondout Creek  
Sample Type: Surface Water  
Order comment:  
Order ID: 121504

---

Sample Number: 215861  
Sample Location: Duplicate/Site #5, grab  
Sample Comment: FC rec'd at 17.5 deg C.  
Date/Time sample collected: 6/3/2014 10:05 Collected By: Alan Adin  
Date/Time sample received: 6/3/2014 11:45 Received by: Amy Jo  
Date/Time sample analyzed: 6/3/2014 15:00 Tech: SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	50	CFU/100mL	SM 18 9222D

\*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

11-Jun-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek  
**Sample Type:** Water  
**Order comment:**  
**Order ID:** 121504

---

**Sample Number:** 216298  
**Sample Location:** Blank-QC  
**Sample Comment:** 100 mL buffered rinse water used  
**Date/Time sample collected:** 6/3/2014 15:00  
**Date/Time sample received:** 6/3/2014 15:00  
**Date/Time sample analyzed:** 6/3/2014 15:00

**Collected By:**  
**Received by:** Amy Jo  
**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	< 1	CFU/100mL	SM 18 9222D

---

\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

07-Jun-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-8536

## CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston NY 12401

PO # 00020300-01

Client Project Name: Rondout Creek

Sample Location: Site #1, grab

Order comment:

Order ID: 121504

Sample Number: 215854

Sample Type: Surface Water

Sample Collected By: Alan Adin

Date/Time sample collected:

6/3/2014 9:25

Date/Time sample received:

6/3/2014 11:45

Received by:

Amy Jo

Sample Comment: FC rec'd at 19.4 deg C.

Parameter:	Test Result	Units	Test Method	Test Date/Time	Tech**
Solids, Settleable	< 0.1	mL/L	SM20 2540F	6/4/2014 16:30	JFE
Total Suspended Solids	5	mg/L	SM20 2540 D	6/4/2014	SW

Results Comment:

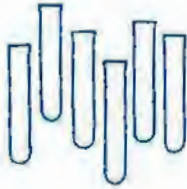
Reviewed by: Lab Manager, ELAP Lab ID #10924

16-Jun-14

Key: < = less than; A=Analysis performed over holding time; B=BOD blank depletion was greater than 0.2 mg/L; C=degrees Celsius; D=Elevated reporting limit; Est=Estimated Value; H=Sample received over analysis holding time; J=Result estimated below quantitation limit; MCL=New York State Maximum Contaminant Level; MDL=Method Detection Limit; mg/kg=milligrams per kilogram dry weight; mg/L=milligrams per Liter; mL/L=milliliters per Liter; ND=Not Detected; NTU=Nephelometric Turbidity Units; PtCo=Platinum Cobalt Units; Q=Not all QC data met acceptance criteria; SI = Saturation Index; SU=Standard pH Units; T.O.N.=Threshold Odor Number at 60 degrees C; ug/L=micrograms per Liter; umho/cm=micromhos per centimeter; V=Value above quantitation range; \*ELAP/NELAC does not offer certification for this analyte; \*\*ELAP ID is listed for sub-contract laboratory

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Total number of pages in this report, including chain of custody, is 9



# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-8536

## CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston NY 12401

PO # 00020300-01

Client Project Name: Rondout Creek  
Sample Location: Site #2, grab  
Order comment:

Order ID: 121504 Sample Number: 215855

Sample Type: Surface Water

Sample Collected By: Alan Adin

Date/Time sample collected:

Date/Time sample received:

Received by:

6/3/2014 9:40

6/3/2014 11:45

Amy Jo

Sample Comment: FC rec'd at 16.5 deg C.

Parameter:	Test Result	Units	Test Method	Test Date/Time	Tech**
Solids, Settleable	< 0.1	mL/L	SM20 2540F	6/4/2014 16:30	JFE
Total Suspended Solids	3	mg/L	SM20 2540 D	6/4/2014	SW

Results Comment:

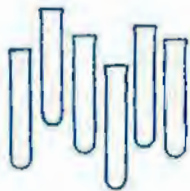
Reviewed by: Lab Manager, ELAP Lab ID #10924

16-Jun-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston NY 12401

PO # 00020300-01

Client Project Name: Rondout Creek

Sample Location: Site #3, grab

Order comment:

Order ID: 121504

Sample Number: 215856

Sample Type: Surface Water

Sample Collected By: Alan Adin

Date/Time sample collected:

Date/Time sample received:

Received by:

6/3/2014 9:47

6/3/2014 11:45

Amy Jo

Sample Comment: FC rec'd at 16.4 deg C.

Parameter:	Test Result	Units	Test Method	Test Date/Time	Tech**
Solids, Settleable	< 0.1	mL/L	SM20 2540F	6/4/2014 16:30	JFE
Total Suspended Solids	2	mg/L	SM20 2540 D	6/4/2014	SW

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

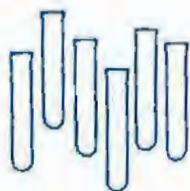
16-Jun-14

Key: < = less than; A=Analysis performed over holding time; B=BOD blank depletion was greater than 0.2 mg/L; C=degrees Celsius; D=Elevated reporting limit; Est=Estimated Value; H=Sample received over analysis holding time; J=Result estimated below quantitation limit; MCL=New York State Maximum Contaminant Level; MDL=Method Detection Limit; mg/kg=milligrams per kilogram dry weight; mg/L=milligrams per Liter; mL/L=milliliters per Liter; ND=Not Detected; NTU=Nephelometric Turbidity Units; PtCo=Platinum Cobalt Units; Q=Not all QC data met acceptance criteria; SI = Saturation Index; SU=Standard pH Units; T.O.N.=Threshold Odor Number at 60 degrees C; ug/L-micrograms per Liter; umho/cm=micromhos per centimeter; V=Value above quantitation range; \*ELAP/NELAC does not offer certification for this analyte; \*\*ELAP ID is listed for sub-contract laboratory

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-8538

## CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO # 00020300-01

Client Project Name: Rondout Creek

Sample Location: Site #4, grab

Order comment:

Order ID: 121504

Sample Number: 215857

Sample Type: Surface Water

Sample Collected By: Alan Adin

Date/Time sample collected:

Date/Time sample received:

Received by:

6/3/2014 9:59

6/3/2014 11:45

Amy Jo

Sample Comment: FC rec'd at 18.2 deg C.

Parameter:	Test Result	Units	Test Method	Test Date/Time	Tech**
Solids, Settleable	< 0.1	mL/L	SM20 2540F	6/4/2014 16:30	JFE
Total Suspended Solids	4	mg/L	SM20 2540 D	6/4/2014	SW

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

16-Jun-14

Key: < = less than; A=Analysis performed over holding time; B=BOD blank depletion was greater than 0.2 mg/L; C=degrees Celsius; D=Elevated reporting limit; Est=Estimated Value; H=Sample received over analysis holding time; J=Result estimated below quantitation limit; MCL=New York State Maximum Contaminant Level; MDL=Method Detection Limit; mg/kg=milligrams per kilogram dry weight; mg/L=milligrams per Liter; mL/L=milliliters per Liter; ND=Not Detected; NTU=Nephelometric Turbidity Units; PtCo=Platinum Cobalt Units; Q=Not all QC data met acceptance criteria; SI = Saturation Index; SU=Standard pH Units; T.O.N.=Threshold Odor Number at 60 degrees C; ug/L-micrograms per Liter; umho/cm=micromhos per centimeter; V=Value above quantitation range; \*ELAP/NELAC does not offer certification for this analyte; \*\*ELAP ID is listed for sub-contract laboratory

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston NY 12401

PO # 00020300-01

Client Project Name: Rondout Creek

Sample Location: Site #5, grab

Order comment:

Order ID: 121504

Sample Number: 215858

Sample Type: Surface Water

Sample Collected By: Alan Adin

Date/Time sample collected:

Date/Time sample received:

Received by:

6/3/2014 10:05

6/3/2014

11:45

Amy Jo

Sample Comment: FC rec'd at 19.6 deg C.

Parameter:	Test Result	Units	Test Method	Test Date/Time	Tech**
Solids, Settleable	< 0.1	mL/L	SM20 2540F	6/4/2014 16:30	JFE
Total Suspended Solids	3	mg/L	SM20 2540 D	6/4/2014	SW

Results Comment:

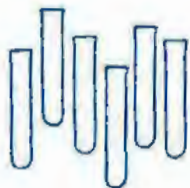
Reviewed by: Lab Manager, ELAP Lab ID #10924

16-Jun-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 228-6536

## CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston NY 12401

PO # 00020300-01

Client Project Name: Rondout Creek

Sample Location: Site #6, grab

Order comment:

Order ID: 121504

Sample Number: 215859

Sample Type: Surface Water

Sample Collected By: Alan Adin

Date/Time sample collected:

6/3/2014 9:55

Date/Time sample received:

6/3/2014 11:45

Received by:

Amy Jo

Sample Comment: FC rec'd at 21.0 deg C.

Parameter:	Test Result	Units	Test Method	Test Date/Time	Tech**
Solids, Settleeable	< 0.1	mL/L	SM20 2540F	6/4/2014 16:30	JFE
Total Suspended Solids	2	mg/L	SM20 2540 D	6/4/2014	SW

Results Comment:

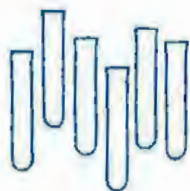
Reviewed by: Lab Manager, ELAP Lab ID #10924

16-Jun-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-8538

## CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston NY 12401

PO # 00020300-01

Client Project Name: Rondout Creek

Sample Location: Site #7, grab

Order comment:

Order ID: 121504

Sample Number: 215860

Sample Type: Surface Water

Sample Collected By: Alan Adin

Date/Time sample collected:

Date/Time sample received:

Received by:

6/3/2014 10:35

6/3/2014 11:45

Amy Jo

Sample Comment: FC rec'd at 21.8 deg C.

Parameter:	Test Result	Units	Test Method	Test Date/Time	Tech**
Solids, Settleable	< 0.1	mL/L	SM20 2540F	6/4/2014 16:50	JFE
Total Suspended Solids	4	mg/L	SM20 2540 D	6/4/2014	SW

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

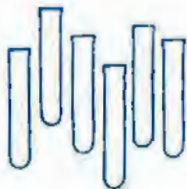
16-Jun-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO # 00020300-01

Client Project Name: Rondout Creek  
Sample Location: Duplicate/Site #5, grab  
Order comment:

Order ID: 121504 Sample Number: 215861

Sample Type: Surface Water

Sample Collected By: Alan Adin

Date/Time sample collected:

Date/Time sample received:

Received by:

6/3/2014 10:05

6/3/2014 11:45

Amy Jo

Sample Comment: FC rec'd at 17.5 deg C.

Parameter:	Test Result	Units	Test Method	Test Date/Time	Tech**
Solids, Settleable	< 0.1	mL/L	SM20 2540F	6/4/2014 17:00	JFE
Total Suspended Solids	3	mg/L	SM20 2540 D	6/4/2014	SW

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

16-Jun-14

Key: < = less than; A=Analysis performed over holding time; B=BOD blank depletion was greater than 0.2 mg/L; C=degrees Celsius; D=Elevated reporting limit; Est=Estimated Value; H=Sample received over analysis holding time; J=Result estimated below quantitation limit; MCL=New York State Maximum Contaminant Level; MDL=Method Detection Limit; mg/kg=milligrams per kilogram dry weight; mg/L=milligrams per Liter; mL/L=milliliters per Liter; ND=Not Detected; NTU=Nephelometric Turbidity Units; PtCo=Platinum Cobalt Units; Q=Not all QC data met acceptance criteria; SI = Saturation Index; SU=Standard pH Units; T.O.N.=Threshold Odor Number at 60 degrees C; ug/L-micrograms per Liter; umho/cm=micromhos per centimeter; V=Value above quantitation range; \*ELAP/NELAC does not offer certification for this analyte; \*\*ELAP ID is listed for sub-contract laboratory

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## SMITH LABORATORY

4 Scenic Drive

Hyde Park, NY 12538-1313

Phone: 845-229-6536

Fax: 845-229-6538

## CHAIN OF CUSTODY

Turnaround Time: Standard ☒RUSH ☐ (Rush surcharge applies)

\*\* Date report requested: \_\_\_\_\_

Copy results to

Local Health Dept.

Yes ☐ No ☒Login Review: W

Amt Due: \_\_\_\_\_

Amt Paid: \_\_\_\_\_

Pmt Method: \_\_\_\_\_

Receipt No: \_\_\_\_\_

Client Name: CITY OF KINGSTONClient Phone No: 845-334-3968 Project/Facility Name: RONDOUT CREEKMailing Address: 420 BROADWAYClient Email: aadin@kingston-ny.gov Location: \_\_\_\_\_KINGSTON, NY 12401Copy Report To: RALPH SWENSON PWS Fed ID No: NY- \_\_\_\_\_

## LAB USE ONLY

## CLIENT: COMPLETE THE SAMPLE INFORMATION IN THE SPACE PROVIDED BELOW

## LAB USE ONLY

Order ID No: Sample No:	Sample Identification & Sample Point	Matrix	(Check One)			Treatment Type & Residual	Date/Time Sampled	Analysis Requested	Container & Preservative	Iced Y/N	Sample Temp, Deg C	Pres. at Lab Y/N
			Grab	Comp # hrs	First Draw							
121504							6:31A					
2158543	SITE #1	SW	X				9:25A	SS TSS	1-1LPLAS 1-1/2 L PLAS	Y	21.3	N
1855	SITE #2	SW	X				9:40A	SS TSS	1-1LPLAS 1-1/2 L PLAS		19.1	
856	SITE #3	SW	X				9:47A	SS TSS	1-1LPLAS 1-1/2 L PLAS		19.7	
857	SITE #4	SW	X				9:59A	SS TSS	1-1LPLAS 1-1/2 L PLAS		19.2	
858	SITE #5	SW	X				10:05A	SS TSS	1-1LPLAS 1-1/2 L PLAS		21.7	
859	SITE #6	SW	X				9:55A	SS TSS	1-1LPLAS 1-1/2 L PLAS		20.1	
860	SITE #7	SW	X				10:35A	SS TSS	1-1LPLAS 1-1/2 L PLAS		21.9	
861	DUPLICATE	SW	X				10:05A	SS TSS	1-1LPLAS 1-1/2 L PLAS		20.8	

Sampled By: (Name) ALAN ADIN (Title) ENGINEERING TECH. I hereby affirm that the information above is true and complete to the best of my knowledge. I also affirm that I am responsible for payment, unless other payment arrangements are approved in advance by Smith Laboratory.

Sample Relinquished By: ALAN ADIN

Received By: \_\_\_\_\_

Date: \_\_\_\_\_ Time: \_\_\_\_\_

Sample Relinquished By: \_\_\_\_\_

Received at Lab By: [Signature]Date: 6/3/14 Time: 11:45

Sample(s) received met the following requirements

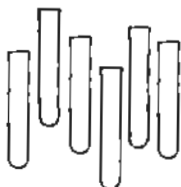
Thermal Preservation: ☒ NA ☒ Yes ☒ No AmChemical Preservation: ☒ NA ☒ Yes ☒ No AmCorrect Bottle Type: ☒ Yes ☒ No

Other: \_\_\_\_\_

Comments: \_\_\_\_\_







# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-8538

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek  
**Sample Type:** Surface Water  
**Order comment:**  
**Order ID:** 121905

---

**Sample Number:** 216746  
**Sample Location:** Site #1, grab  
**Sample Comment:** FC rec'd at 13.4 deg C.  
**Date/Time sample collected:** 6/16/2014 10:55  
**Date/Time sample received:** 6/16/2014 13:30  
**Date/Time sample analyzed:** 6/16/2014 15:30

**Collected By:** Alan Adin  
**Received by:** Amy Jo  
**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	270	CFU/100mL	SM 18 9222D

---

\*Bacteriological test results are expressed as Colony Forming Units.

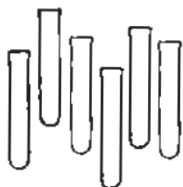
**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

18-Jun-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

Client Project Name: Rondout Creek  
Sample Type: Surface Water  
Order comment:  
Order ID: 121905

---

Sample Number: 216747  
Sample Location: Site #2, grab  
Sample Comment: FC rec'd at 14.9 deg C.  
Date/Time sample collected: 6/16/2014 11:10 Collected By: Alan Adin  
Date/Time sample received: 6/16/2014 13:30 Received by: Amy Jo  
Date/Time sample analyzed: 6/16/2014 15:30 Tech: SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	340	CFU/100mL	SM 18 9222O

\*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

18-Jun-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek  
**Sample Type:** Surface Water  
**Order comment:**  
**Order ID:** 121905

---

**Sample Number:** 216748  
**Sample Location:** Site #3, grab  
**Sample Comment:** FC rec'd at 14.3 deg C.  
**Date/Time sample collected:** 6/16/2014 11:20  
**Date/Time sample received:** 6/16/2014 13:30  
**Date/Time sample analyzed:** 6/16/2014 15:30

**Collected By:** Alan Adin  
**Received by:** Amy Jo  
**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	220	CFU/100mL	SM 18 9222D

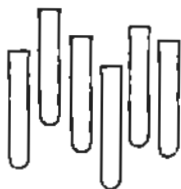
\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

18-Jun-14

*Smith Laboratory is approved as an Environmental Testing Laboratory in conformance with the National Environmental Laboratory Accreditation Conference (NELAC) Standards. This test report pertains only to the above items analyzed on this sample as received by the laboratory. Information supplied by the client is assumed to be correct.*



# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-8538

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek  
**Sample Type:** Surface Water  
**Order comment:**  
**Order ID:** 121905

---

**Sample Number:** 216749  
**Sample Location:** Site #4, grab  
**Sample Comment:** FC rec'd at 13.1 deg C.  
**Date/Time sample collected:** 6/16/2014 11:30 **Collected By:** Alan Adin  
**Date/Time sample received:** 6/16/2014 13:30 **Received by:** Amy Jo  
**Date/Time sample analyzed:** 6/16/2014 15:30 **Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	320	CFU/100mL	SM 18 9222D

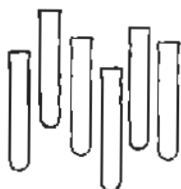
\*Bacteriological test results are expressed as Colony Forming Units

**Results Comment:**

Reviewed by Lab Manager, ELAP Lab ID #10924

18-Jun-14

*Smith Laboratory is approved as an Environmental Testing Laboratory in conformance with the National Environmental Laboratory Accreditation Conference (NELAC) Standards. This test report pertains only to the above items analyzed on this sample as received by the laboratory. Information supplied by the client is assumed to be correct.*



# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek  
**Sample Type:** Surface Water  
**Order comment:**  
**Order ID:** 121905

---

**Sample Number:** 216750  
**Sample Location:** Site #5, grab  
**Sample Comment:** FC rec'd at 14.8 deg C.  
**Date/Time sample collected:** 6/16/2014 11:40 **Collected By:** Alan Adin  
**Date/Time sample received:** 6/16/2014 13:30 **Received by:** Amy Jo  
**Date/Time sample analyzed:** 6/16/2014 15:30 **Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	260	CFU/100mL	SM 18 9222D

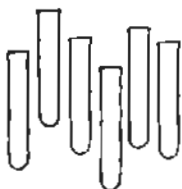
\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

18-Jun-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-8536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office

Attn: Alan Adin

420 Broadway

Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek

**Sample Type:** Surface Water

**Order comment:**

**Order ID:** 121905

---

**Sample Number:** 216751

**Sample Location:** Site #6, grab

**Sample Comment:** FC rec'd at 16.3 deg C.

**Date/Time sample collected:** 6/16/2014 11:25

**Collected By:** Alan Adin

**Date/Time sample received:** 6/16/2014 13:30

**Received by:** Amy Jo

**Date/Time sample analyzed:** 6/16/2014 15:30

**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	310	CFU/100mL	SM 18.9222D

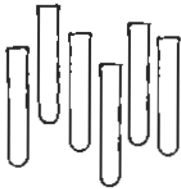
\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by Lab Manager, ELAP Lab ID #10924

18-Jun-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek  
**Sample Type:** Surface Water  
**Order comment:**  
**Order ID:** 121905

---

**Sample Number:** 216752  
**Sample Location:** Site #7, grab  
**Sample Comment:** FC rec'd at 16.4 deg C.  
**Date/Time sample collected:** 6/16/2014 12:15 **Collected By:** Alan Adin  
**Date/Time sample received:** 6/16/2014 13:30 **Received by:** Amy Jo  
**Date/Time sample analyzed:** 6/16/2014 15:30 **Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	240	CFU/100mL	SM 18 9222D

\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

18-Jun-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6538

## CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

Client Project Name: Rondout Creek  
Sample Type: Surface Water  
Order comment:  
Order ID: 121905

---

Sample Number: 216753  
Sample Location: Duplicate/Site #7, grab  
Sample Comment: FC rec'd at 15.7 deg C.  
Date/Time sample collected: 6/16/2014 12:15  
Date/Time sample received: 6/16/2014 13:30  
Date/Time sample analyzed: 6/16/2014 15:30

Collected By: Alan Adin  
Received by: Amy Jo  
Tech: SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	360	CFU/100mL	SM 18 9222D

---

\*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by Lab Manager, ELAP Lab ID #10824

18-Jun-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

Client Project Name: Rondout Creek  
Sample Type: Water  
Order comment:  
Order ID: 121905

---

Sample Number: 216788  
Sample Location: Blank-QC  
Sample Comment: 100 mL of buffered rinse water used  
Date/Time sample collected: 6/16/2014 15:30 Collected By:  
Date/Time sample received: 6/16/2014 15:30 Received by: Amy Jo  
Date/Time sample analyzed: 6/16/2014 15:30 Tech: SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	< 1	CFU/100mL	SM 18.9222D

\*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

18-Jun-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6538

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

**Sample Type:** Surface Water  
**Client Project Name:** Rondout Creek  
**Order comment:**

**Order ID:** 121905 **Sample Number:** 216746  
**Sample Location:** Site #1, grab  
**Date/Time sample collected:** 6/16/2014 10:55  
**Date/Time samples received:** 6/16/2014 13:30  
**Sample Comment:** FC rec'd at 13.4 deg C

**Sample Collected By:** Alan Adin  
**Sample Received by:** Amy Jo

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Total Suspended Solids	14	mg/L	SM20 2540 D	6/17/2014		SW
Solids, Settleable	< 0.1	mL/L	SM20 2540F	6/16/2014	14:10	LAE

**Order ID:** 121905 **Sample Number:** 216747  
**Sample Location:** Site #2, grab  
**Date/Time sample collected:** 6/16/2014 11:10  
**Date/Time samples received:** 6/16/2014 13:30  
**Sample Comment:** FC rec'd at 14.9 deg C.

**Sample Collected By:** Alan Adin  
**Sample Received by:** Amy Jo

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Total Suspended Solids	12	mg/L	SM20 2540 D	6/17/2014		SW
Solids, Settleable	< 0.1	mL/L	SM20 2540F	6/16/2014	14:10	LAE

**Order ID:** 121905 **Sample Number:** 216748  
**Sample Location:** Site #3, grab  
**Date/Time sample collected:** 6/16/2014 11:20  
**Date/Time samples received:** 6/16/2014 13:30  
**Sample Comment:** FC rec'd at 14.3 deg C.

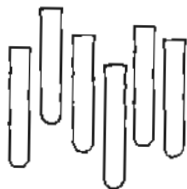
**Sample Collected By:** Alan Adin  
**Sample Received by:** Amy Jo

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Total Suspended Solids	7	mg/L	SM20 2540 D	6/17/2014		SW
Solids, Settleable	< 0.1	mL/L	SM20 2540F	6/16/2014	14:10	LAE

**Order ID:** 121905 **Sample Number:** 216749  
**Sample Location:** Site #4, grab  
**Date/Time sample collected:** 6/16/2014 11:30  
**Date/Time samples received:** 6/16/2014 13:30  
**Sample Comment:** FC rec'd at 13.1 deg C.

**Sample Collected By:** Alan Adin  
**Sample Received by:** Amy Jo

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Total Suspended Solids	8	mg/L	SM20 2540 D	6/17/2014		SW
Solids, Settleable	< 0.1	mL/L	SM20 2540F	6/16/2014	14:10	LAE



# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

Order ID: 121905      Sample Number: 216750  
Sample Location: Site #5, grab  
Date/Time sample collected: 6/16/2014 11:40      Sample Collected By: Alan Adin  
Date/Time samples received: 6/16/2014 13:30      Sample Received by: Amy Jo  
Sample Comment: FC rec'd at 14.8 deg C.

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Total Suspended Solids	6	mg/L	SM20 2540 D	6/17/2014		SW
Solids, Settleable	< 0.1	mL/L	SM20 2540F	6/16/2014	14:10	LAE

---

Order ID: 121905      Sample Number: 216751  
Sample Location: Site #6, grab  
Date/Time sample collected: 6/16/2014 11:25      Sample Collected By: Alan Adin  
Date/Time samples received: 6/16/2014 13:30      Sample Received by: Amy Jo  
Sample Comment: FC rec'd at 16.3 deg C.

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Total Suspended Solids	8	mg/L	SM20 2540 D	6/17/2014		SW
Solids, Settleable	< 0.1	mL/L	SM20 2540F	6/16/2014	14:10	LAE

---

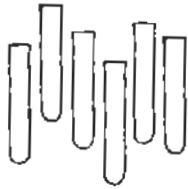
Order ID: 121905      Sample Number: 216752  
Sample Location: Site #7, grab  
Date/Time sample collected: 6/16/2014 12:15      Sample Collected By: Alan Adin  
Date/Time samples received: 6/16/2014 13:30      Sample Received by: Amy Jo  
Sample Comment: FC rec'd at 16.4 deg C.

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Total Suspended Solids	12	mg/L	SM20 2540 D	6/17/2014		SW
Solids, Settleable	< 0.1	mL/L	SM20 2540F	6/16/2014	14:10	LAE

---

Order ID: 121905      Sample Number: 216753  
Sample Location: Duplicate/Site #7, grab  
Date/Time sample collected: 6/16/2014 12:15      Sample Collected By: Alan Adin  
Date/Time samples received: 6/18/2014 13:30      Sample Received by: Amy Jo  
Sample Comment: FC rec'd at 15.7 deg C.

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Total Suspended Solids	10	mg/L	SM20 2540 D	6/17/2014		SW
Solids, Settleable	< 0.1	mL/L	SM20 2540F	6/16/2014	14:10	LAE



# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

Results Comment:

Reviewed by: Laboratory Manager, ELAP Lab ID #10924

03-Jul-14

Key: < = less than; A=Analysis performed over holding time; C=degrees Celsius; B=BOD blank depletion was greater than 0.2 mg/L; D=Elevated reporting limit; Est=Estimated Value; H=Sample received over analysis holding time; J=Result estimated below quantitation limit; MCL=New York State Maximum Contaminant Level; MDL=Method Detection Limit; mg/kg=milligrams per kilogram dry weight; mg/L=milligrams per Liter; mL/L=milliliters per Liter; ND=Not Detected; NTU=Nephelometric Turbidity Units; PtCo=Platinum Cobalt Units; Q=Not all QC data met acceptance criteria; SI = Saturation Index; SU=Standard pH Units; TON=Threshold Odor Number at 44.5 degrees C; ug/L-micrograms per Liter; umho/cm=micromhos per centimeter; V=Value above quantitation range; \*ELAP/NELAC does not offer certification for this analyte; \*\*ELAP ID is listed for sub-contract laboratory

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Total number of pages in this report, including chain of custody, is 4

## SMITH LABORATORY

4 Scenic Drive

Hyde Park, NY 12538-1313

Phone: 845-229-6536

Fax: 845-229-6538

## CHAIN OF CUSTODY

Turnaround Time: Standard ☒RUSH ☐ (Rush surcharge applies)

\*\* Date report requested:

Copy results to

Local Health Dept.

Yes ☐ No ☒Login Review: *AW*

Amt Due:

Amt Paid:

Pmt Method:

Receipt No:

Client Name: CITY OF KINGSTON

Client Phone No: 845-334-3968

Project/Facility Name: RONDOUT CREEK

Mailing Address: 420 BROADWAY

Client Email: aadin@kingston-ny.gov

Location:

KINGSTON, NY 12401

Copy Report To: RALPH SWENSON

PWS Fed ID No: NY-

## LAB USE ONLY

## CLIENT: COMPLETE THE SAMPLE INFORMATION IN THE SPACE PROVIDED BELOW

## LAB USE ONLY

Order ID No: 121905 Sample No:	Sample Identification & Sample Point	Matrix	(Check One)			Treatment Type & Residual	Date/Time Sampled	Analysis Requested	Container & Preservative	Iced Y/N	Sample Temp, Deg C	Pres. at Lab Y/N
			Grab	Comp # hrs	First Draw							
216746A	SITE #1	SW	X				10:55A	SS TSS	1-1LPLAS 1-1/2 L PLAS	✓	17.2/17.4	N
747	SITE #2	SW	X				11:10A	SS TSS	1-1LPLAS 1-1/2 L PLAS		16.5/17.4	
748	SITE #3	SW	X				11:20A	SS TSS	1-1LPLAS 1-1/2 L PLAS		17.4/15.8	
749	SITE #4	SW	X				11:30A	SS TSS	1-1LPLAS 1-1/2 L PLAS		13.0/17.4	
750	SITE #5	SW	X				11:40A	SS TSS	1-1LPLAS 1-1/2 L PLAS		11.2/17.2	
751	SITE #6	SW	X				11:25A	SS TSS	1-1LPLAS 1-1/2 L PLAS		16.9/11.4	
752	SITE #7	SW	X				12:15P	SS TSS	1-1LPLAS 1-1/2 L PLAS		18.9/12.8	
753	DUPLICATE SITE #7	SW	X				12:15P	SS TSS	1-1LPLAS 1-1/2 L PLAS		17.4/19.5	

Sampled By: (Name) ALAN ADIN (Title) ENGINEERING TECH. I hereby affirm that the information above is true and complete to the best of my knowledge. I also affirm that I am responsible for payment, unless other payment arrangements are approved in advance by Smith Laboratory.

Sample Relinquished By: ALAN ADIN

Received By: *AW*

Date: 6/16/14 Time: 1330

Sample Relinquished By:

Received at Lab By:

Date: 6/16/14 Time: 1330

Sample(s) received met the following requirements

Thermal Preservation: NA Yes No

Chemical Preservation: NA Yes No

Correct Bottle Type Yes No

Other

Comments:

Initials:

AJA

Date: 6-20-14

Page 1 of 1

Sampling Team:

ALAN ADIN/ALLEN WINCHELL

Weather:

SUNNY - HIGH 70°

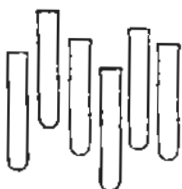
Temperature:

Direction of Flow:

OUT EASTERLY

LOW TIDE = 2:55 PM

Sampling Location	Time	Field Parameter	Physical Observations	Comments
SITE #1: MID-ROAD CREEK APPROX. 250 YDS UPSTREAM OF WILBUR AVE. OUTFALL	LATITUDE: 41.906 LONGITUDE: 74.004 2:10P	DO 8.7 mg/L temperature 25.8°C	Grease none Floatables none Odors none	TIDE: OUT EASTERLY APPROX. 15 YDS WESTERLY OF FEELEY DRY DOCK AT PROPERTY BOUNDARY BETWEEN FEELEY AND RECYCLING BUSINESS
SITE #2: MID-ROAD CREEK - UPSTREAM OF BLOCK PARK	LAT: 41.91 LONG: 73.99 2:20P	DO 8.7 mg/L temperature 25.2°C	Grease none Floatables none Odors none	TIDE: OUT EASTERLY 50 YDS SOUTHERLY OF ISLAND DOCK CAUSEWAY CULVERTS
SITE #3: MID-ROAD CREEK APPROX. 150 YDS UPSTREAM OF OLD BRIDGE	LAT: 41.91 LONG: 73.98 2:30P	DO 8.8 mg/L temperature 25.2°C	Grease none Floatables none Odors none	TIDE: OUT EASTERLY 25 YDS SOUTHERLY BOILER PROTRUDING ISLAND DOCK BULKHEAD OLD STEEL IN WATER NEAR
SITE #6: MID-ROAD CREEK UNDER NEW BRIDGE	LAT: 41.92 LONG: 73.98 2:35P	DO 8.8 mg/L temperature 24.6°C	Grease none Floatables none Odors none	TIDE: OUT EASTERLY 50 YDS SOUTHERLY MAINTENANCE SHED, CLEARWATER LE SLIDE DOORS
SITE #4: MID-ROAD CREEK APPROX. 200 YDS DOWNSTREAM OF NEW BRIDGE	LAT: 41.92 LONG: 73.98 2:40P	DO 8.8 mg/L temperature 24.3°C	Grease none Floatables none Odors none	TIDE: OUT EASTERLY 50 YDS SOUTHERLY RESTAURANT COVER STEELHOUSE ATIO
SITE #5: MID-ROAD CREEK UPSTREAM OF BLOCK PARK	LAT: 41.92 LONG: 73.97 2:47P	DO 8.8 mg/L temperature 24.5°C	Grease none Floatables none Odors none	TIDE: OUT EASTERLY 50 YDS SOUTHERLY CROSSING WARNING SIGN GAS LINE
SITE #7: MID-ROAD CREEK APPROX. 3/4 MILE UPSTREAM OF EDDYVILLE DAM AT NYSDEC BOAT LAUNCH	LAT: 41.88 LONG: 74.03 3:15P	DO 8.0 mg/L temperature 25.1°C	Grease none Floatables none Odors none	FLOW: ALWAYS EASTERLY (DOWNSTREAM) - LOCATION NOT TIDAL. STRAIGHT OUT FROM WESTERLY END BOAT LAUNCH 1st low in week
DUPLICATE	LAT: LONG: SITE #1	DO temperature	Grease Floatables Odors	SEE SITE #1



# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 228-8536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek  
**Sample Type:** Surface Water  
**Order comment:**  
**Order ID:** 122080

---

**Sample Number:** 217141  
**Sample Location:** Site #1, grab  
**Sample Comment:** FC rec'd at 14.9 deg C.  
**Date/Time sample collected:** 6/20/2014 14:10  
**Date/Time sample received:** 6/20/2014 16:10  
**Date/Time sample analyzed:** 6/20/2014 17:30

**Collected By:** Alan Adin  
**Received by:** Amy Jo  
**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	< 10	CFU/100mL	SM 18 9222D

---

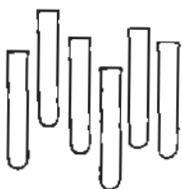
\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

24-Jun-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 228-8538

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
**Attn:** Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek  
**Sample Type:** Surface Water  
**Order comment:**  
**Order ID:** 122080

---

**Sample Number:** 217142  
**Sample Location:** Site #2, grab  
**Sample Comment:** FC rec'd at 13.7 deg C.  
**Date/Time sample collected:** 6/20/2014 14:20  
**Date/Time sample received:** 6/20/2014 16:10  
**Date/Time sample analyzed:** 6/20/2014 17:30

**Collected By:** Alan Adin  
**Received by:** Amy Jo  
**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	50	CFU/100mL	SM 18 9222D

\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**



Reviewed by: Lab Manager, ELAP Lab ID #10924

24-Jun-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-8536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office

Attn: Alan Adin

420 Broadway

Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek

**Sample Type:** Surface Water

**Order comment:**

**Order ID:** 122080

---

**Sample Number:** 217143

**Sample Location:** Site #3, grab

**Sample Comment:** FC rec'd at 13.3 deg C.

**Date/Time sample collected:** 6/20/2014 14:30

**Collected By:** Alan Adin

**Date/Time sample received:** 6/20/2014 16:10

**Received by:** Amy Jo

**Date/Time sample analyzed:** 6/20/2014 17:30

**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	50	CFU/100mL	SM 18 9222D

\*Bacteriological test results are expressed as Colony Forming Units

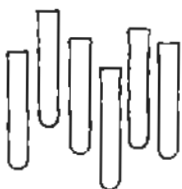
**Results Comment:**

  
Reviewed by: Lab Manager, ELAP Lab ID #10924

24-Jun-14

*Smith Laboratory is approved as an Environmental Testing Laboratory in conformance with the National Environmental Laboratory Accreditation Conference (NELAC) Standards. This test report pertains only to the above items analyzed on this sample as received by the laboratory. Information supplied by the client is assumed to be correct.*





# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

Attn: Alan Adin

420 Broadway

Kingston

NY 12401

PO #

Client Project Name: Rondout Creek

Sample Type: Surface Water

Order comment:

Order ID: 122080

Sample Number: 217144

Sample Location: Site #4, grab

Sample Comment: FC rec'd at 14.8 deg C.

Date/Time sample collected: 6/20/2014 14:40

Collected By: Alan Adin

Date/Time sample received: 6/20/2014 16:10

Received by: Amy Jo

Date/Time sample analyzed: 6/20/2014 17:30

Tech: SS

Parameter	Test Result*	Units	Test Method
Fecal Coliform	60	CFU/100mL	SM 18 9222D

\*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

24-Jun-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-8538

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek  
**Sample Type:** Surface Water  
**Order comment:**  
**Order ID:** 122080

---

**Sample Number:** 217145  
**Sample Location:** Site #5, grab  
**Sample Comment:** FC rec'd at 9.9 deg C.  
**Date/Time sample collected:** 6/20/2014 14:47  
**Date/Time sample received:** 6/20/2014 16:10  
**Date/Time sample analyzed:** 6/20/2014 17:30

**Collected By:** Alan Adin  
**Received by:** Amy Jo  
**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	80	CFU/100mL	SM 18 9222D

\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

24-Jun-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-8536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek  
**Sample Type:** Surface Water  
**Order comment:**  
**Order ID:** 122080

---

**Sample Number:** 217146  
**Sample Location:** Site #6, grab  
**Sample Comment:** FC rec'd at 16.9 deg C.  
**Date/Time sample collected:** 6/20/2014 14:35  
**Date/Time sample received:** 6/20/2014 16:10  
**Date/Time sample analyzed:** 6/20/2014 17:30

**Collected By:** Alan Adin  
**Received by:** Amy Jo  
**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	20	CFU/100mL	SM 18 9222D

---

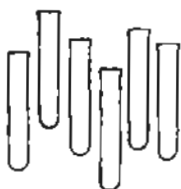
\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

  
Reviewed by: Lab Manager, ELAP Lab ID #10924

24-Jun-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek  
**Sample Type:** Surface Water  
**Order comment:**  
**Order ID:** 122080

---

**Sample Number:** 217147  
**Sample Location:** Site #7, grab  
**Sample Comment:** FC rec'd at 15.3 deg C.  
**Date/Time sample collected:** 6/20/2014 15:15  
**Date/Time sample received:** 6/20/2014 16:10  
**Date/Time sample analyzed:** 6/20/2014 17:30

**Collected By:** Alan Adin  
**Received by:** Amy Jo  
**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	10	CFU/100mL	SM 18 9222D

\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Leah Menager, ELAP Lab ID #10924

24-Jun-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

Client Project Name: Rondout Creek  
Sample Type: Surface Water  
Order comment:  
Order ID: 122080

Sample Number: 217148  
Sample Location: Duplicate, Site #1, grab  
Sample Comment: FC rec'd at 18.9 deg C.  
Date/Time sample collected: 6/20/2014 14:10  
Date/Time sample received: 6/20/2014 16:10  
Date/Time sample analyzed: 6/20/2014 17:30

Collected By: Alan Adin  
Received by: Amy Jo  
Tech: SS

Parameter	Test Result*	Units	Test Method
Fecal Coliform	60	CFU/100mL	SM 18 9222D

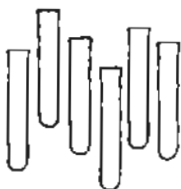
\*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by Lab Manager, ELAP Lab ID #10924

24-Jun-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

Attn: Alan Adin

420 Broadway

Kingston

NY 12401

PO #

Client Project Name: Rondout Creek

Sample Type: Water

Order comment:

Order ID: 122080

Sample Number: 217246

Sample Location: Blank-QC

Sample Comment: 100 mL buffered rinse water used

Date/Time sample collected: 6/20/2014 17:30

Collected By:

Date/Time sample received: 6/20/2014 17:30

Received by: Amy Jo

Date/Time sample analyzed: 6/20/2014 17:30

Tech: SS

Parameter	Test Result*	Units	Test Method
Fecal Coliform	< 1	CFU/100mL	SM 18 9222D

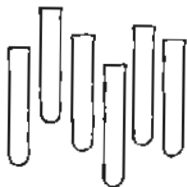
\*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

24-Jun-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

**Sample Type:** Surface Water  
**Client Project Name:** Rondout Creek  
**Order comment:**

**Order ID:** 122080 **Sample Number:** 217141

**Sample Location:** Site #1, grab

**Date/Time sample collected:** 6/20/2014 14:10

**Sample Collected By:** Alan Adin

**Date/Time samples received:** 6/20/2014 16:10

**Sample Received by:** Amy Jo

**Sample Comment:** FC rec'd at 14.9 deg C.

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Total Suspended Solids	4	mg/L	SM20 2540 D	6/24/2014		SW
Solids, Settleable	0.1	mL/L	SM20 2540F	6/20/2014	16:30	JFE

**Order ID:** 122080 **Sample Number:** 217142

**Sample Location:** Site #2, grab

**Date/Time sample collected:** 6/20/2014 14:20

**Sample Collected By:** Alan Adin

**Date/Time samples received:** 6/20/2014 16:10

**Sample Received by:** Amy Jo

**Sample Comment:** FC rec'd at 13.7 deg C.

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Total Suspended Solids	5	mg/L	SM20 2540 D	6/24/2014		SW
Solids, Settleable	< 0.1	mL/L	SM20 2540F	6/20/2014	16:30	JFE

**Order ID:** 122080 **Sample Number:** 217143

**Sample Location:** Site #3, grab

**Date/Time sample collected:** 6/20/2014 14:30

**Sample Collected By:** Alan Adin

**Date/Time samples received:** 6/20/2014 16:10

**Sample Received by:** Amy Jo

**Sample Comment:** FC rec'd at 13.3 deg C.

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Total Suspended Solids	3	mg/L	SM20 2540 D	6/24/2014		SW
Solids, Settleable	0.1	mL/L	SM20 2540F	6/20/2014	16:30	JFE

**Order ID:** 122080 **Sample Number:** 217144

**Sample Location:** Site #4, grab

**Date/Time sample collected:** 6/20/2014 14:40

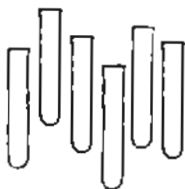
**Sample Collected By:** Alan Adin

**Date/Time samples received:** 6/20/2014 16:10

**Sample Received by:** Amy Jo

**Sample Comment:** FC rec'd at 14.6 deg C.

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Total Suspended Solids	5	mg/L	SM20 2540 D	6/24/2014		SW
Solids, Settleable	< 0.1	mL/L	SM20 2540F	6/20/2014	16:30	JFE



# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-8538

## CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

Order ID: 122080      Sample Number: 217145  
Sample Location: Site #5, grab  
Date/Time sample collected: 6/20/2014 14:47      Sample Collected By: Alan Adin  
Date/Time samples received: 6/20/2014 16:10      Sample Received by: Amy Jo  
Sample Comment: FC rec'd at 9.9 deg C.

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Total Suspended Solids	4	mg/L	SM20 2540 D	6/24/2014		SW
Solids, Settleable	< 0.1	mL/L	SM20 2540F	6/20/2014	16:30	JFE

---

Order ID: 122080      Sample Number: 217146  
Sample Location: Site #6, grab  
Date/Time sample collected: 6/20/2014 14:35      Sample Collected By: Alan Adin  
Date/Time samples received: 6/20/2014 16:10      Sample Received by: Amy Jo  
Sample Comment: FC rec'd at 16.9 deg C.

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Total Suspended Solids	4	mg/L	SM20 2540 D	6/24/2014		SW
Solids, Settleable	0.1	mL/L	SM20 2540F	6/20/2014	16:30	JFE

---

Order ID: 122080      Sample Number: 217147  
Sample Location: Site #7, grab  
Date/Time sample collected: 6/20/2014 15:15      Sample Collected By: Alan Adin  
Date/Time samples received: 6/20/2014 16:10      Sample Received by: Amy Jo  
Sample Comment: FC rec'd at 15.3 deg C.

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Total Suspended Solids	4	mg/L	SM20 2540 D	6/24/2014		SW
Solids, Settleable	< 0.1	mL/L	SM20 2540F	6/20/2014	16:30	JFE

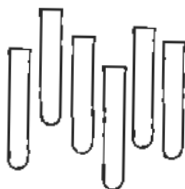
---

Order ID: 122080      Sample Number: 217148  
Sample Location: Duplicate, Site #1, grab  
Date/Time sample collected: 6/20/2014 14:10      Sample Collected By: Alan Adin  
Date/Time samples received: 6/20/2014 16:10      Sample Received by: Amy Jo  
Sample Comment: FC rec'd at 18.9 deg C.

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Total Suspended Solids	6	mg/L	SM20 2540 D	6/24/2014		SW
Solids, Settleable	< 0.1	mL/L	SM20 2540F	6/20/2014	16:30	JFE

---





# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

### Results Comment:

Reviewed by: Laboratory Manager, ELAP Lab ID #10924

03-Jul-14

Key: < = less than; A=Analysis performed over holding time; C=degrees Celsius; B=BOD blank depletion was greater than 0.2 mg/L; D=Elevated reporting limit; Est=Estimated Value; H=Sample received over analysis holding time; J=Result estimated below quantitation limit; MCL=New York State Maximum Contaminant Level; MDL=Method Detection Limit; mg/kg=milligrams per kilogram dry weight; mg/L=milligrams per Liter; mL/L=milliliters per Liter; ND=Not Detected; NTU=Nephelometric Turbidity Units; PtCo=Platinum Cobalt Units; Q=Not all QC data met acceptance criteria; SI = Saturation Index; SU=Standard pH Units; TON=Threshold Odor Number at 44.5 degrees C; ug/L-micrograms per Liter; umho/cm=micromhos per centimeter; V=Value above quantitation range; \*ELAP/NELAC does not offer certification for this analyte; \*\*ELAP ID is listed for sub-contract laboratory

*Smith Laboratory is approved as an Environmental Testing Laboratory in conformance with the National Environmental Laboratory Accreditation Conference (NELAC) Standards. This test report pertains only to the above items analyzed on this sample as received by the laboratory. Information supplied by the client is assumed to be correct.*

Total number of pages in this report, including chain of custody, is 4

<b>SMITH LABORATORY</b> 4 Scenic Drive Hyde Park, NY 12538-1313 Phone: 845-229-6536 Fax: 845-229-6538		<b>CHAIN OF CUSTODY</b>		Login Review: <u>any</u> Amt Due: Amt Paid: Pmt Method : Receipt No:	
Turnaround Time: Standard <input checked="" type="checkbox"/> <b>RUSH</b> <input type="checkbox"/> (Rush surcharge applies) ** Date report requested:		Copy results to Local Health Dept. Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>			

Client Name: CITY OF KINGSTON Client Phone No: 845-334-3968 Project/Facility Name: RONDOUT CREEK  
 Mailing Address: 420 BROADWAY Client Email: aadin@kingston-ny.gov Location: \_\_\_\_\_  
KINGSTON, NY 12401 Copy Report To: RALPH SWENSON PWS Fed ID No: NY-

LAB USE ONLY			CLIENT: COMPLETE THE SAMPLE INFORMATION IN THE SPACE PROVIDED BELOW								LAB USE ONLY		
Order ID No: 220810	Sample Identification & Sample Point	Matrix	(Check One)			Treatment Type & Residual	Date/Time Sampled 6-20-14	Analysis Requested	Container & Preservative	Iced Y/N	Sample Temp, Deg C	Pres. at Lab Y/N	
Sample No:			Grab	Comp # hrs	First Draw								
217141 <sup>A</sup> B	SITE #1	SW	X				2:10P	SS TSS	1-1LPLAS 1-1/2 L PLAS	✓	20.9 71.6	✓	
142	SITE #2	SW	X				2:20P	SS TSS	1-1LPLAS 1-1/2 L PLAS		22.9 72.1		
143	SITE #3	SW	X				2:30P	SS TSS	1-1LPLAS 1-1/2 L PLAS		20.3 68.9		
144	SITE #4	SW	X				2:40P	SS TSS	1-1LPLAS 1-1/2 L PLAS		20.4 68.6		
145	SITE #5	SW	X				2:47P	SS TSS	1-1LPLAS 1-1/2 L PLAS		19.7 67.9		
146	SITE #6	SW	X				2:35P	SS TSS	1-1LPLAS 1-1/2 L PLAS		20.0 68.0		
147	SITE #7	SW	X				3:15P	SS TSS	1-1LPLAS 1-1/2 L PLAS		20.9 69.8		
148	DUPLICATE SITE #1	SW	X				2:10P	SS TSS	1-1LPLAS 1-1/2 L PLAS	✓	21.4 71.6	✓	

Sampled By: (Name) ALAN ADIN (Title) ENGINEERING TECH I hereby affirm that the information above is true and complete to the best of my knowledge. I also affirm that I am responsible for payment, unless other payment arrangements are approved in advance by Smith Laboratory.

Sample Relinquished By: ALAN ADIN Received By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Sample Relinquished By: \_\_\_\_\_ Received at Lab By: [Signature] Date: 6/20/14 Time: 1610

Sample(s) received met the following requirements Thermal Preservation: <u>NA</u> Yes No Chemical Preservation: <u>NA</u> Yes No Correct Bottle Type: <u>Yes</u> No Other: _____	Comments: _____ _____ _____
--	--------------------------------------

Initials:

ATA

Date: 6/23/14

Page \_\_\_ of \_\_\_

Sampling Team:

A. ADIN/A. WINCHELL/R. SUTTON

Weather:

CLEAR

Temperature:

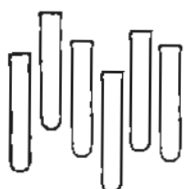
HIGH 70°

Direction of Flow:

W-WESTERLY

HIGH TIDE - 11:47A

Sampling Location	Time	Field Parameter	Physical Observations	Comments
SITE #1: MID-RODOUT CREEK APPROX. 250 YDS UPSTREAM OF WILBUR AVE. OUTFALL	LATITUDE: 41.906 LONGITUDE: 74.004 10:30A	DO 8.4 mg/L temperature 25.1°C	Grease NONE Floatables MINIMAL Odors NONE	TIDE: IN WESTERLY APPROX. 15 YDS WESTERLY OF FEEVEY DRY DOCK AT PROPERTY BOUNDARY BETWEEN FEEVEY AND RECYCLING BUSINESS VEGETATIVE MATTER 2
SITE #2: MID-RODOUT CREEK - UPSTREAM OF BLOCK PARK	LAT: 41.91 LONG: 73.99 10:40A	DO 9.5 mg/L temperature 24.6°C 24.6°C	Grease NONE Floatables NONE Odors NONE	TIDE: IN WESTERLY 50 YDS SOUTHERLY OF ISLAND DOCK CAUSEWAY CULVERT
SITE #3: MID-RODOUT CREEK APPROX. 150 YDS UPSTREAM OF OLD BRIDGE	LAT: 41.91 LONG: 73.98 10:50A	DO 9.3 mg/L temperature 24.0°C	Grease NONE Floatables NONE Odors NONE	TIDE: IN WESTERLY 25 YDS SOUTHERLY BOILER PROTRUDING ISLAND DOCK BULKHEAD
SITE #6: MID-RODOUT CREEK UNDER NEW BRIDGE	LAT: 41.92 LONG: 73.98 10:56A	DO 8.9 mg/L temperature 24.5°C	Grease NONE Floatables NONE Odors NONE	TIDE: IN WESTERLY 50 YDS SOUTHERLY MAINTENANCE SHED,
SITE #4: MID-RODOUT CREEK APPROX. 200 YDS DOWNSTREAM OF NEW BRIDGE	LAT: 41.92 LONG: 73.98 11:02A	DO 8.6 mg/L temperature 23.5°C	Grease NONE Floatables NONE Odors NONE	TIDE: IN WESTERLY 50 YDS SOUTHERLY RESTAURANT COVER
SITE #5: MID-RODOUT CREEK UPSTREAM OF BLOCK PARK	LAT: 41.92 LONG: 73.97 11:10A	DO 8.3 mg/L temperature 23.7°C	Grease NONE Floatables NONE Odors NONE	TIDE: IN WESTERLY 50 YDS SOUTHERLY CROSSING WARNING
SITE #7: MID-RODOUT CREEK APPROX. 3/4 MILE UPSTREAM OF EDDYVILLE DAM AT NYSDEC BOAT LAUNCH	LAT: 41.90 LONG: 74.03 11:37A #34A	DO 8.4 temperature 25.1	Grease NONE Floatables MINIMAL Odors NONE	FLOW: ALWAYS EASTERLY (DOWNSTREAM) - LOCATION NOT TIDAL. STRAIGHT OUT FROM WESTERLY END BOAT LAUNCH / VEGETATIVE MATTER CREEK LEVEL ~ 2' LOW
DUPPLICATE	LAT: LONG: SITE #2	DO temperature	Grease Floatables Odors	SEE SITE #2



# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 228-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek  
**Sample Type:** Surface Water  
**Order comment:**  
**Order ID:** 122107

---

**Sample Number:** 217213  
**Sample Location:** Site #1, grab  
**Sample Comment:** FC rec'd at 16.2 deg C  
**Date/Time sample collected:** 6/23/2014 10:30  
**Date/Time sample received:** 6/23/2014 15:00  
**Date/Time sample analyzed:** 6/23/2014 16:00

**Collected By:** Alan Adin  
**Received by:** Karolina  
**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	80	CFU/100mL	SM 18 9222D

---

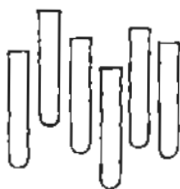
\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

  
Reviewed by: Lab Manager, ELAP Lab ID #10924

26-Jun-14

*Smith Laboratory is approved as an Environmental Testing Laboratory in conformance with the National Environmental Laboratory Accreditation Conference (NELAC) Standards. This test report pertains only to the above items analyzed on this sample as received by the laboratory. Information supplied by the client is assumed to be correct.*



# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-8536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek  
**Sample Type:** Surface Water  
**Order comment:**  
**Order ID:** 122107

---

**Sample Number:** 217214  
**Sample Location:** Site #2, grab  
**Sample Comment:** FC rec'd at 13.1 deg C  
**Date/Time sample collected:** 6/23/2014 10:40  
**Date/Time sample received:** 6/23/2014 15:00  
**Date/Time sample analyzed:** 6/23/2014 16:00

**Collected By:** Alan Adin  
**Received by:** Karolina  
**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	< 10	CFU/100mL	SM 18 9222D

---

\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

26-Jun-14

*Smith Laboratory is approved as an Environmental Testing Laboratory in conformance with the National Environmental Laboratory Accreditation Conference (NELAC) Standards. This test report pertains only to the above items analyzed on this sample as received by the laboratory. Information supplied by the client is assumed to be correct.*



# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 228-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek  
**Sample Type:** Surface Water  
**Order comment:**  
**Order ID:** 122107

---

**Sample Number:** 217215  
**Sample Location:** Site #3, grab  
**Sample Comment:** FC rec'd at 6.9 deg C  
**Date/Time sample collected:** 6/23/2014 10:50  
**Date/Time sample received:** 6/23/2014 15:00  
**Date/Time sample analyzed:** 6/23/2014 16:00

**Collected By:** Alan Adin  
**Received by:** Karolina  
**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	< 10	CFU/100mL	SM 18 9222D

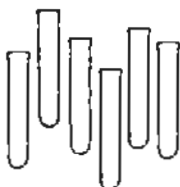
\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

26-Jun-14

*Smith Laboratory is approved as an Environmental Testing Laboratory in conformance with the National Environmental Laboratory Accreditation Conference (NELAC) Standards. This test report pertains only to the above items analyzed on this sample as received by the laboratory. Information supplied by the client is assumed to be correct.*



# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-8538

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office

Attn: Alan Adin

420 Broadway

Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek

**Sample Type:** Surface Water

**Order comment:**

**Order ID:** 122107

---

**Sample Number:** 217216

**Sample Location:** Site #4, grab

**Sample Comment:** FC rec'd at 20.8 deg C

**Date/Time sample collected:** 6/23/2014 11:02

**Collected By:** Alan Adin

**Date/Time sample received:** 6/23/2014 15:00

**Received by:** Karolina

**Date/Time sample analyzed:** 6/23/2014 16:00

**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	< 10	CFU/100mL	SM 18 9222D

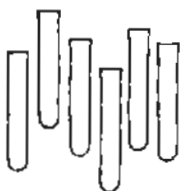
\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

26-Jun-14

*Smith Laboratory is approved as an Environmental Testing Laboratory in conformance with the National Environmental Laboratory Accreditation Conference (NELAC) Standards. This test report pertains only to the above items analyzed on this sample as received by the laboratory. Information supplied by the client is assumed to be correct.*



# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

Client Project Name: Rondout Creek  
Sample Type: Surface Water  
Order comment:  
Order ID: 122107

---

Sample Number: 217217  
Sample Location: Site #5, grab  
Sample Comment: FC rec'd at 5.5 deg C  
Date/Time sample collected: 6/23/2014 11:10  
Date/Time sample received: 6/23/2014 15:00  
Date/Time sample analyzed: 6/23/2014 16:00

Collected By: Alan Adin  
Received by: Karolina  
Tech: SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	50	CFU/100mL	SM 18 9222D

---

\*Bacteriological test results are expressed as Colony Forming Units.

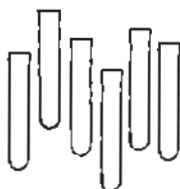
Results Comment:

Reviewed by Lab Manager, ELAP Lab ID #10924

26-Jun-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek  
**Sample Type:** Surface Water  
**Order comment:**  
**Order ID:** 122107

---

**Sample Number:** 217218  
**Sample Location:** Site #8, grab  
**Sample Comment:** FC rec'd at 14.8 deg C  
**Date/Time sample collected:** 6/23/2014 10:56  
**Date/Time sample received:** 6/23/2014 15:00  
**Date/Time sample analyzed:** 6/23/2014 16:00

**Collected By:** Alan Adin  
**Received by:** Karolina  
**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	50	CFU/100mL	SM 18 9222D

---

\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

26-Jun-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 228-8536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office

Attn: Alan Adin

420 Broadway

Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek

**Sample Type:** Surface Water

**Order comment:**

**Order ID:** 122107

---

**Sample Number:** 217219

**Sample Location:** Site #7, grab

**Sample Comment:** FC rec'd at 13.4 deg C

**Date/Time sample collected:** 6/23/2014 11:37

**Collected By:** Alan Adin

**Date/Time sample received:** 6/23/2014 15:00

**Received by:** Karolina

**Date/Time sample analyzed:** 6/23/2014 16:00

**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	10	CFU/100mL	SM 18 9222D

\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

28-Jun-14

*Smith Laboratory is approved as an Environmental Testing Laboratory in conformance with the National Environmental Laboratory Accreditation Conference (NELAC) Standards. This test report pertains only to the above items analyzed on this sample as received by the laboratory. Information supplied by the client is assumed to be correct.*



# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-8538

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek  
**Sample Type:** Surface Water  
**Order comment:**  
**Order ID:** 122107

---

**Sample Number:** 217220  
**Sample Location:** Duplicate, Site #2, grab  
**Sample Comment:** FC rec'd at 10.1 deg C  
**Date/Time sample collected:** 6/23/2014 10:40  
**Date/Time sample received:** 6/23/2014 15:00  
**Date/Time sample analyzed:** 6/23/2014 16:00

**Collected By:** Alan Adin  
**Received by:** Karolina  
**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	10	CFU/100mL	SM 18 9222D

\*Bacteriological test results are expressed as Colony Forming Units

**Results Comment:**

  
**Reviewed by:** Lab Manager, ELAP Lab ID #10924

26-Jun-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek  
**Sample Type:** Water  
**Order comment:**  
**Order ID:** 122107

---

**Sample Number:** 217245  
**Sample Location:** Blank-QC  
**Sample Comment:** 100 mL of buffered rinse water used  
**Date/Time sample collected:** 6/23/2014 16:00 **Collected By:**  
**Date/Time sample received:** 6/23/2014 16:00 **Received by:** Karolina  
**Date/Time sample analyzed:** 6/23/2014 16:00 **Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	< 1	CFU/100mL	SM 18 9222D

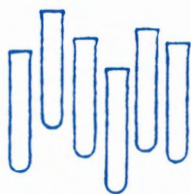
\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

26-Jun-14

*Smith Laboratory is approved as an Environmental Testing Laboratory in conformance with the National Environmental Laboratory Accreditation Conference (NELAC) Standards. This test report pertains only to the above items analyzed on this sample as received by the laboratory. Information supplied by the client is assumed to be correct.*



# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

**Sample Type:** Surface Water  
**Client Project Name:** Rondout Creek  
**Order comment:**

**Order ID:** 122107 **Sample Number:** 217213

**Sample Location:** Site #1, grab

**Date/Time sample collected:** 6/23/2014 10:30

**Sample Collected By:** Alan Adin

**Date/Time samples received:** 6/23/2014 15:00

**Sample Received by:** Karolina

**Sample Comment:** FC rec'd at 16.2 deg C

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Total Suspended Solids	8	mg/L	SM20 2540 D	6/24/2014		SW
Solids, Settleable	< 0.1	mL/L	SM20 2540F	6/23/2014	15:20	LAE

**Order ID:** 122107 **Sample Number:** 217214

**Sample Location:** Site #2, grab

**Date/Time sample collected:** 6/23/2014 10:40

**Sample Collected By:** Alan Adin

**Date/Time samples received:** 6/23/2014 15:00

**Sample Received by:** Karolina

**Sample Comment:** FC rec'd at 13.1 deg C

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Total Suspended Solids	6	mg/L	SM20 2540 D	6/24/2014		SW
Solids, Settleable	< 0.1	mL/L	SM20 2540F	6/23/2014	15:20	LAE

**Order ID:** 122107 **Sample Number:** 217215

**Sample Location:** Site #3, grab

**Date/Time sample collected:** 6/23/2014 10:50

**Sample Collected By:** Alan Adin

**Date/Time samples received:** 6/23/2014 15:00

**Sample Received by:** Karolina

**Sample Comment:** FC rec'd at 6.9 deg C

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Total Suspended Solids	8	mg/L	SM20 2540 D	6/24/2014		SW
Solids, Settleable	< 0.1	mL/L	SM20 2540F	6/23/2014	15:20	LAE

**Order ID:** 122107 **Sample Number:** 217216

**Sample Location:** Site #4, grab

**Date/Time sample collected:** 6/23/2014 11:02

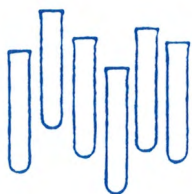
**Sample Collected By:** Alan Adin

**Date/Time samples received:** 6/23/2014 15:00

**Sample Received by:** Karolina

**Sample Comment:** FC rec'd at 20.8 deg C

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Total Suspended Solids	8	mg/L	SM20 2540 D	6/24/2014		SW
Solids, Settleable	< 0.1	mL/L	SM20 2540F	6/23/2014	15:20	LAE



# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

**Order ID:** 122107 **Sample Number:** 217217

**Sample Location:** Site #5, grab

**Date/Time sample collected:** 6/23/2014 11:10

**Sample Collected By:** Alan Adin

**Date/Time samples received:** 6/23/2014 15:00

**Sample Received by:** Karolina

**Sample Comment:** FC rec'd at 5.5 deg C

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Total Suspended Solids	14	mg/L	SM20 2540 D	6/24/2014		SW
Solids, Settleable	< 0.1	mL/L	SM20 2540F	6/23/2014	15:20	LAE

**Order ID:** 122107 **Sample Number:** 217218

**Sample Location:** Site #6, grab

**Date/Time sample collected:** 6/23/2014 10:56

**Sample Collected By:** Alan Adin

**Date/Time samples received:** 6/23/2014 15:00

**Sample Received by:** Karolina

**Sample Comment:** FC rec'd at 14.8 deg C

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Total Suspended Solids	5	mg/L	SM20 2540 D	6/24/2014		SW
Solids, Settleable	< 0.1	mL/L	SM20 2540F	6/23/2014	15:20	LAE

**Order ID:** 122107 **Sample Number:** 217219

**Sample Location:** Site #7, grab

**Date/Time sample collected:** 6/23/2014 11:37

**Sample Collected By:** Alan Adin

**Date/Time samples received:** 6/23/2014 15:00

**Sample Received by:** Karolina

**Sample Comment:** FC rec'd at 13.4 deg C

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Total Suspended Solids	2	mg/L	SM20 2540 D	6/24/2014		SW
Solids, Settleable	< 0.1	mL/L	SM20 2540F	6/23/2014	16:20	LAE

**Order ID:** 122107 **Sample Number:** 217220

**Sample Location:** Duplicate, Site #2, grab

**Date/Time sample collected:** 6/23/2014 10:40

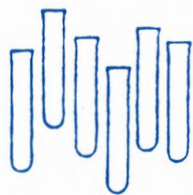
**Sample Collected By:** Alan Adin

**Date/Time samples received:** 6/23/2014 15:00

**Sample Received by:** Karolina

**Sample Comment:** FC rec'd at 10.1 deg C

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Total Suspended Solids	5	mg/L	SM20 2540 D	6/24/2014		SW
Solids, Settleable	< 0.1	mL/L	SM20 2540F	6/23/2014	16:20	LAE



# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

### Results Comment:

Reviewed by: Laboratory Manager, ELAP Lab ID #10924

14-Jul-14

Key: < = less than; A=Analysis performed over holding time; C=degrees Celsius; B=BOD blank depletion was greater than 0.2 mg/L; D=Elevated reporting limit; Est=Estimated Value; H=Sample received over analysis holding time; J=Result estimated below quantitation limit; MCL=New York State Maximum Contaminant Level; MDL=Method Detection Limit; mg/kg=milligrams per kilogram dry weight; mg/L=milligrams per Liter; mL/L=milliliters per Liter; ND=Not Detected; NTU=Nephelometric Turbidity Units; PtCo=Platinum Cobalt Units; Q=Not all QC data met acceptance criteria; SI = Saturation Index; SU=Standard pH Units; TON=Threshold Odor Number at 44.5 degrees C; ug/L-micrograms per Liter; umho/cm=micromhos per centimeter; V=Value above quantitation range; \*ELAP/NELAC does not offer certification for this analyte; \*\*ELAP ID is listed for sub-contract laboratory

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Total number of pages in this report, including chain of custody, is 4



SMITH LABORATORY  
4 Scenic Drive  
Hyde Park, NY 12538-1313  
Phone: 845-229-6536  
Fax: 845-229-6538

## CHAIN OF CUSTODY

Turnaround Time: Standard ☒  
**RUSH** ☐ (Rush surcharge applies)  
\*\* Date report requested: \_\_\_\_\_

Copy results to  
Local Health Dept.  
Yes ☐ No ☒

Login Review: KW  
Amt Due: \_\_\_\_\_  
Amt Paid: \_\_\_\_\_  
Pmt Method: \_\_\_\_\_  
Receipt No: \_\_\_\_\_

Client Name: CITY OF KINGSTON

Client Phone No: 845-334-3968 Project/Facility Name: RONDOUT CREEK

Mailing Address: 420 BROADWAY

Client Email: aadin@kingston-ny.gov Location: \_\_\_\_\_

KINGSTON, NY 12401

Copy Report To: RALPH SWENSON PWS Fed ID No: NY-

### LAB USE ONLY

### CLIENT: COMPLETE THE SAMPLE INFORMATION IN THE SPACE PROVIDED BELOW

### LAB USE ONLY

Order ID No: Sample No:	Sample Identification & Sample Point	Matrix	(Check One)			Treatment Type & Residual	Date/Time Sampled	Analysis Requested	Container & Preservative	Iced Y/N	Sample Temp, Deg C	Pres. at Lab Y/N
			Grab	Comp # hrs	First Draw							
122107							6-23-14					
217213AB	SITE #1	SW	X				10:30A	SS TSS	1-1LPLAS 1-1/2 L PLAS	Y	13.3	N
217214AB	SITE #2	SW	X				10:40A	SS TSS	1-1LPLAS 1-1/2 L PLAS	Y	13	
217215AB	SITE #3	SW	X				10:50A	SS TSS	1-1LPLAS 1-1/2 L PLAS	Y	12.1	
217216AB	SITE #4	SW	X				11:02A	SS TSS	1-1LPLAS 1-1/2 L PLAS	Y	18.9	
217217AB	SITE #5	SW	X				11:10A	SS TSS	1-1LPLAS 1-1/2 L PLAS	Y	12.8	
217218AB	SITE #6	SW	X				10:56A	SS TSS	1-1LPLAS 1-1/2 L PLAS	Y	17.1	
217219AB	SITE #7	SW	X				11:37A	SS TSS	1-1LPLAS 1-1/2 L PLAS	Y	22.3	
217220AB	DUPLICATE SITE #2	SW	X				10:40A	SS TSS	1-1LPLAS 1-1/2 L PLAS	Y	18.7	

Sampled By: (Name) ALAN ADIN (Title) ENGINEERING TECH. I hereby affirm that the information above is true and complete to the best of my knowledge. I also affirm that I am responsible for payment, unless other payment arrangements are approved in advance by Smith Laboratory.

Sample Relinquished By: ALAN ADIN

Received By: \_\_\_\_\_

Date: \_\_\_\_\_ Time: \_\_\_\_\_

Sample Relinquished By: \_\_\_\_\_

Received at Lab By: KW

Date: 6/23/14 Time: 3pm

Sample(s) received met the following requirements

Thermal Preservation: NA Yes No Yes

Chemical Preservation: NA Yes No Yes

Correct Bottle Type Yes No Yes

Other \_\_\_\_\_

Comments: \_\_\_\_\_



Attachment 1 - Sampling Event Summary Sheet

SAMPLING EVENT #11

Initials:

A.A.

Date:

7/7/14

Page \_\_\_ of \_\_\_

Sampling Team:

A. Adin / A. Winchell

Weather:

OVERCAST / POST RAIN EVENT

Temperature:

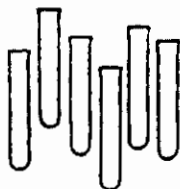
70°

Direction of Flow:

IN WESTERLY - HIGH TIDE 6:15P

/RAIN/T-STORMS COMMENCED ~1:15P/END ~5:45P

Sampling Location	Time	Field Parameter	Physical Observations	Comments
SITE #1: MID-ROADOUT CREEK APPROX. 250 YDS UPSTREAM OF WILBUR AVE. OUTFALL	LATITUDE: 41.907 LONGITUDE: 73.904 6:15PM	DO 7.5 mg/L temperature 26.5°C	Grease NONE Floatables NONE Odors NONE	TIDE: <del>IN WESTERLY</del> APPROX. 15 YDS WESTERLY OF FEEENEY DRY DOCK AT PROPERTY BOUNDARY BETWEEN FEEENEY AND RECYCLING BUSINESS
SITE #2: MID-ROADOUT CREEK - UPSTREAM OF BLOCK PARK	LAT: 41.912 LONG: 73.942 6:25P	DO 7.6 mg/L temperature 26.4°C	Grease NONE Floatables NONE Odors NONE	TIDE: <del>IN WESTERLY</del> OUT EASTERLY 50 YDS SOUTHERLY OF ISLAND DOCK CAUSEWAY CULVERTS SPORADIC LARGE WOOD DEBRIS.
SITE #3: MID-ROADOUT CREEK APPROX. 150 YDS UPSTREAM OF OLD BRIDGE	LAT: 41.915 LONG: 73.984 6:30P	DO 5.3 mg/L temperature 26.3°C	Grease NONE Floatables NONE Odors NONE	TIDE: <del>IN WESTERLY</del> OUT EASTERLY 25 YDS SOUTHERLY OF OLD STEEL BOILER PROTRUDING FROM WATER NEAR ISLAND DOCK BULKHEAD
SITE #6: MID-ROADOUT CREEK UNDER NEW BRIDGE	LAT: 41.918 LONG: 73.981 6:35P	DO 8.4 mg/L temperature 26.2°C	Grease NONE Floatables NONE Odors NONE	TIDE: <del>IN WESTERLY</del> OUT EASTERLY 50 YDS SOUTHERLY OF CLEARWATER MAINTENANCE SHED, DOUBLE SLIDE DOORS
SITE #4: MID-ROADOUT CREEK APPROX. 200 YDS DOWNSTREAM OF NEW BRIDGE	LAT: 41.919 LONG: 73.979 6:40P	DO 8.4 mg/L temperature 26.1°C	Grease NONE Floatables MINIMAL Odors NONE	TIDE: OUT EAST 50 YDS SOUTHERLY RESTAURANT COVER VEGETATION
SITE #5: MID-ROADOUT CREEK UPSTREAM OF BLOCK PARK	LAT: 41.922 LONG: 73.969 6:45P	DO 9.5 mg/L temperature 26.4°C	Grease NONE Floatables NONE Odors NONE	TIDE: OUT EAST 50 YDS SOUTHERLY CROSSING WARMING
SITE #7: MID-ROADOUT CREEK APPROX. 3/4 MILE UPSTREAM OF EDDYVILLE DAM AT NYSDEL BOAT LAUNCH	LAT: 41.90 LONG: 73.900 7:15P	DO 5.7 mg/L temperature 25.6°C	Grease NONE Floatables INDICATE Odors NONE	FLOW: ALWAYS EASTER NOT TIDAL. STRAIGHT END BOAT LAUNCH STICKS, DEBRIS.
DUPLICATE	LAT: LONG: SITE #4	DO temperature	Grease Floatables Odors	SITE #. DOWNSTREAM - LOCATION IT FROM WESTERLY SEDIMENT MATTER



# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 228-8538

## CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

Client Project Name: Rondout Creek  
Sample Type: Surface Water  
Order comment:  
Order ID: 122378

---

Sample Number: 217840  
Sample Location: Site #1, grab  
Sample Comment: FC rec'd at 8.3 deg C.  
Date/Time sample collected: 7/2/2014 18:15 Collected By: AW  
Date/Time sample received: 7/2/2014 20:10 Received by: Amy Jo  
Date/Time sample analyzed: 7/2/2014 20:55 Tech: AGS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	270	CFU/100mL	SM 18 9222D

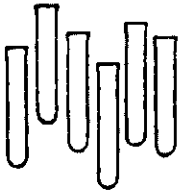
\*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

07-Jul-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-8538

## CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

Client Project Name: Rondout Creek  
Sample Type: Surface Water  
Order comment:  
Order ID: 122376

---

Sample Number: 217841  
Sample Location: Site #2, grab  
Sample Comment: FC rec'd at 10.4 deg C.  
Date/Time sample collected: 7/2/2014 18:25  
Date/Time sample received: 7/2/2014 20:10  
Date/Time sample analyzed: 7/2/2014 20:55

Collected By: AW  
Received by: Amy Jo  
Tech: AGS

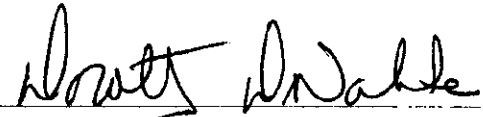
---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	70	CFU/100mL	SM 18 9222D

---

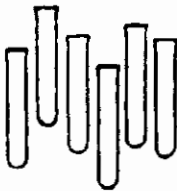
\*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

  
Reviewed by: Lab Manager, ELAP Lab ID #10924

07-Jul-14

*Smith Laboratory is approved as an Environmental Testing Laboratory in conformance with the National Environmental Laboratory Accreditation Conference (NELAC) Standards. This test report pertains only to the above items analyzed on this sample as received by the laboratory. Information supplied by the client is assumed to be correct.*



# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-8538

## CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

Client Project Name: Rondout Creek  
Sample Type: Surface Water  
Order comment:  
Order ID: 122376

Sample Number: 217842  
Sample Location: Site #3, grab  
Sample Comment: FC rec'd at 13.3 deg C.  
Date/Time sample collected: 7/2/2014 18:30  
Date/Time sample received: 7/2/2014 20:10  
Date/Time sample analyzed: 7/2/2014 20:55

Collected By: AW  
Received by: Amy Jo  
Tech: AGS

Parameter	Test Result*	Units	Test Method
Fecal Coliform	40	CFU/100mL	SM 18 9222D

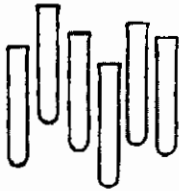
\*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

07-Jul-14

*Smith Laboratory is approved as an Environmental Testing Laboratory in conformance with the National Environmental Laboratory Accreditation Conference (NELAC) Standards. This test report pertains only to the above items analyzed on this sample as received by the laboratory. Information supplied by the client is assumed to be correct.*



# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-8536

## CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

Client Project Name: Rondout Creek  
Sample Type: Surface Water  
Order comment:  
Order ID: 122376

---

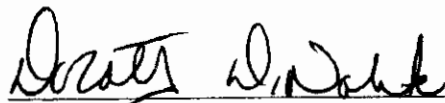
Sample Number: 217843  
Sample Location: Site #4, grab  
Sample Comment: FC rec'd at 13.1 deg C.  
Date/Time sample collected: 7/2/2014 18:40 Collected By: AW  
Date/Time sample received: 7/2/2014 20:10 Received by: Amy Jo  
Date/Time sample analyzed: 7/2/2014 20:55 Tech: AGS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	7000 (Est)	CFU/100mL	SM 18 9222D

\*Bacteriological test results are expressed as Colony Forming Units.

Results Comment: (Est): Represents an estimated count due to overcrowding growth.

  
Reviewed by: Lab Manager, ELAP Lab ID #10924

07-Jul-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

Client Project Name: Rondout Creek  
Sample Type: Surface Water  
Order comment:  
Order ID: 122376

---

Sample Number: 217844  
Sample Location: Site #5, grab  
Sample Comment: FC rec'd at 12.7 deg C.  
Date/Time sample collected: 7/2/2014 18:45  
Date/Time sample received: 7/2/2014 20:10  
Date/Time sample analyzed: 7/2/2014 20:55

Collected By: AW  
Received by: Amy Jo  
Tech: AGS

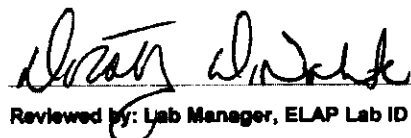
---

Parameter	Test Result	Units	Test Method
Fecal Coliform	470	CFU/100mL	SM 16 9222D

---

\*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

  
Reviewed by: Lab Manager, ELAP Lab ID #10924

07-Jul-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-8538

## CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

Client Project Name: Rondout Creek  
Sample Type: Surface Water  
Order comment:  
Order ID: 122376

---

Sample Number: 217845  
Sample Location: Site #6, grab  
Sample Comment: FC rec'd at 12.2 deg C.  
Date/Time sample collected: 7/2/2014 18:35  
Date/Time sample received: 7/2/2014 20:10  
Date/Time sample analyzed: 7/2/2014 20:55

Collected By: AW  
Received by: Amy Jo  
Tech: AGS

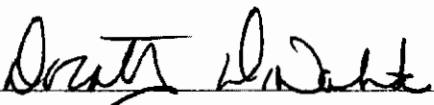
---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	1500	CFU/100mL	SM 18 9222D

---

\*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

  
Reviewed by: Lab Manager, ELAP Lab ID #10924

07-Jul-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-8538

## CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

Client Project Name: Rondout Creek  
Sample Type: Surface Water  
Order comment:  
Order ID: 122376

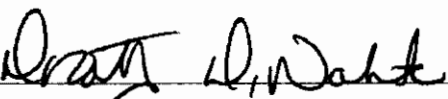
Sample Number: 217846  
Sample Location: Site #7, grab  
Sample Comment: FC rec'd at 10.4 deg C.  
Date/Time sample collected: 7/2/2014 19:15  
Date/Time sample received: 7/2/2014 20:10  
Date/Time sample analyzed: 7/2/2014 20:55

Collected By: AW  
Received by: Amy Jo  
Tech: AGS

Parameter	Test Result*	Units	Test Method
Fecal Coliform	450	CFU/100mL	SM 18 9222D

\*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

  
Reviewed by Lab Manager, ELAP Lab ID #10924

07-Jul-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

Client Project Name: Rondout Creek  
Sample Type: Surface Water  
Order comment:  
Order ID: 122376

---

Sample Number: 217847  
Sample Location: Duplicate, grab  
Sample Comment: FC rec'd at 14.6 deg C.  
Date/Time sample collected: 7/2/2014 18:40  
Date/Time sample received: 7/2/2014 20:10  
Date/Time sample analyzed: 7/2/2014 20:55

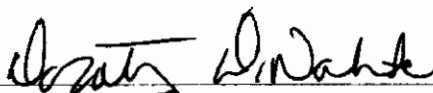
Collected By: AW  
Received by: Amy Jo  
Tech: AGS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	6500 (Est)	CFU/100mL	SM 18 9222D

\*Bacteriological test results are expressed as Colony Forming Units.

Results Comment: (Est): Represents an estimated count due to overcrowding growth.

  
Reviewed by: Lab Manager, ELAP Lab ID #10924

07-Jul-14

*Smith Laboratory is approved as an Environmental Testing Laboratory in conformance with the National Environmental Laboratory Accreditation Conference (NELAC) Standards. This test report pertains only to the above items analyzed on this sample as received by the laboratory. Information supplied by the client is assumed to be correct.*



# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

Client Project Name: Rondout Creek  
Sample Type: Buffered DI Water  
Order comment:  
Order ID: 122376

---

Sample Number: 217975  
Sample Location: Blank  
Sample Comment:  
Date/Time sample collected: 7/2/2014 20:55 Collected By: AGS  
Date/Time sample received: 7/2/2014 20:55 Received by: Amy Jo  
Date/Time sample analyzed: 7/2/2014 20:55 Tech: AGS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	<1	CFU/100mL	SM 18 9222D

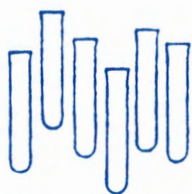
\*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

08-Jul-14

*Smith Laboratory is approved as an Environmental Testing Laboratory in conformance with the National Environmental Laboratory Accreditation Conference (NELAC) Standards. This test report pertains only to the above items analyzed on this sample as received by the laboratory. Information supplied by the client is assumed to be correct.*



# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office

Attn: Alan Adin

420 Broadway

Kingston

NY 12401

PO #

**Sample Type:** Surface Water

**Client Project Name:** Rondout Creek

**Order comment:**

**Order ID:** 122376 **Sample Number:** 217840

**Sample Location:** Site #1, grab

**Date/Time sample collected:** 7/2/2014 18:15

**Sample Collected By:** AW

**Date/Time samples received:** 7/2/2014 20:10

**Sample Received by:** Amy Jo

**Sample Comment:** FC rec'd at 8.3 deg C.

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Total Suspended Solids	4	mg/L	SM20 2540 D	7/8/2014		SW
Solids, Settleable	< 0.1	mL/L	SM20 2540F	7/3/2014	11:45	SW

**Order ID:** 122376 **Sample Number:** 217841

**Sample Location:** Site #2, grab

**Date/Time sample collected:** 7/2/2014 18:25

**Sample Collected By:** AW

**Date/Time samples received:** 7/2/2014 20:10

**Sample Received by:** Amy Jo

**Sample Comment:** FC rec'd at 10.4 deg C.

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Total Suspended Solids	3	mg/L	SM20 2540 D	7/8/2014		SW
Solids, Settleable	< 0.1	mL/L	SM20 2540F	7/3/2014	11:45	SW

**Order ID:** 122376 **Sample Number:** 217842

**Sample Location:** Site #3, grab

**Date/Time sample collected:** 7/2/2014 18:30

**Sample Collected By:** AW

**Date/Time samples received:** 7/2/2014 20:10

**Sample Received by:** Amy Jo

**Sample Comment:** FC rec'd at 13.3 deg C.

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Total Suspended Solids	3	mg/L	SM20 2540 D	7/8/2014		SW
Solids, Settleable	< 0.1	mL/L	SM20 2540F	7/3/2014	11:45	SW

**Order ID:** 122376 **Sample Number:** 217843

**Sample Location:** Site #4, grab

**Date/Time sample collected:** 7/2/2014 18:40

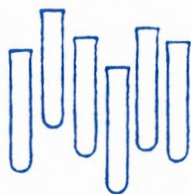
**Sample Collected By:** AW

**Date/Time samples received:** 7/2/2014 20:10

**Sample Received by:** Amy Jo

**Sample Comment:** FC rec'd at 13.1 deg C.

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Total Suspended Solids	6	mg/L	SM20 2540 D	7/8/2014		SW
Solids, Settleable	< 0.1	mL/L	SM20 2540F	7/3/2014	11:45	SW



# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

**Order ID:** 122376      **Sample Number:** 217844  
**Sample Location:** Site #5, grab  
**Date/Time sample collected:** 7/2/2014 18:45      **Sample Collected By:** AW  
**Date/Time samples received:** 7/2/2014 20:10      **Sample Received by:** Amy Jo  
**Sample Comment:** FC rec'd at 12.7 deg C.  

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Total Suspended Solids	4	mg/L	SM20 2540 D	7/8/2014		SW
Solids, Settleable	< 0.1	mL/L	SM20 2540F	7/3/2014	11:45	SW

---

**Order ID:** 122376      **Sample Number:** 217845  
**Sample Location:** Site #6, grab  
**Date/Time sample collected:** 7/2/2014 18:35      **Sample Collected By:** AW  
**Date/Time samples received:** 7/2/2014 20:10      **Sample Received by:** Amy Jo  
**Sample Comment:** FC rec'd at 12.2 deg C.  

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Total Suspended Solids	2	mg/L	SM20 2540 D	7/8/2014		SW
Solids, Settleable	< 0.1	mL/L	SM20 2540F	7/3/2014	11:45	SW

---

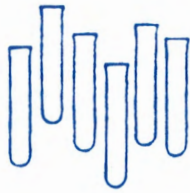
**Order ID:** 122376      **Sample Number:** 217846  
**Sample Location:** Site #7, grab  
**Date/Time sample collected:** 7/2/2014 19:15      **Sample Collected By:** AW  
**Date/Time samples received:** 7/2/2014 20:10      **Sample Received by:** Amy Jo  
**Sample Comment:** FC rec'd at 10.4 deg C.  

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Total Suspended Solids	3	mg/L	SM20 2540 D	7/8/2014		SW
Solids, Settleable	< 0.1	mL/L	SM20 2540F	7/3/2014	11:45	SW

---

**Order ID:** 122376      **Sample Number:** 217847  
**Sample Location:** Duplicate, grab  
**Date/Time sample collected:** 7/2/2014 18:40      **Sample Collected By:** AW  
**Date/Time samples received:** 7/2/2014 20:10      **Sample Received by:** Amy Jo  
**Sample Comment:** FC rec'd at 14.6 deg C.  

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Total Suspended Solids	5	mg/L	SM20 2540 D	7/8/2014		SW
Solids, Settleable	< 0.1	mL/L	SM20 2540F	7/3/2014	11:45	SW



# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office

Attn: Alan Adin

420 Broadway

Kingston

NY 12401

PO #

**Results Comment:**

**Reviewed by:** Laboratory Manager, ELAP Lab ID #10924

18-Jul-14

Key: < = less than; A=Analysis performed over holding time; C=degrees Celsius; B=BOD blank depletion was greater than 0.2 mg/L; D=Elevated reporting limit; Est=Estimated Value; H=Sample received over analysis holding time; J=Result estimated below quantitation limit; MCL=New York State Maximum Contaminant Level; MDL=Method Detection Limit; mg/kg=milligrams per kilogram dry weight; mg/L=milligrams per Liter; mL/L=milliliters per Liter; ND=Not Detected; NTU=Nephelometric Turbidity Units; PtCo=Platinum Cobalt Units; Q=Not all QC data met acceptance criteria; SI = Saturation Index; SU=Standard pH Units; TON=Threshold Odor Number at 44.5 degrees C; ug/L-micrograms per Liter; umho/cm=micromhos per centimeter; V=Value above quantitation range; \*ELAP/NELAC does not offer certification for this analyte; \*\*ELAP ID is listed for sub-contract laboratory

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Total number of pages in this report, including chain of custody, is 4

SMITH LABORATORY  
4 Scenic Drive  
Hyde Park, NY 12538-1313  
Phone: 845-229-6536  
Fax: 845-229-6538

## CHAIN OF CUSTODY

Turnaround Time: Standard ☒  
**RUSH** ☐ (Rush surcharge applies)  
\*\* Date report requested: \_\_\_\_\_

Copy results to  
Local Health Dept.  
Yes ☐ No ☒

Login Review: W  
Amt Due: \_\_\_\_\_  
Amt Paid: \_\_\_\_\_  
Pmt Method: \_\_\_\_\_  
Receipt No: \_\_\_\_\_

Client Name: CITY OF KINGSTON

Client Phone No: 845-334-3968

Project/Facility Name: RONDOUT CREEK

Mailing Address: 420 BROADWAY

Client Email: aadin@kingston-ny.gov

Location: \_\_\_\_\_

KINGSTON, NY 12401

Copy Report To: RALPH SWENSON

PWS Fed ID No: NY- \_\_\_\_\_

### LAB USE ONLY

### CLIENT: COMPLETE THE SAMPLE INFORMATION IN THE SPACE PROVIDED BELOW

### LAB USE ONLY

Order ID No: Sample No:	Sample Identification & Sample Point	Matrix	(Check One)			Treatment Type & Residual	Date/Time Sampled	Analysis Requested	Container & Preservative	Iced Y/N	Sample Temp, Deg C	Pres. at Lab Y/N
			Grab	Comp # hrs	First Draw							
122376 2178401	SITE #1	SW	X				6:15 P 7/2/14	SS TSS	1-1LPLAS 1-1/2 L PLAS	Y	12.6 13	N
841	SITE #2	SW	X				6:25 P 7/2/14	SS TSS	1-1LPLAS 1-1/2 L PLAS	Y	12.9 12.9	
842	SITE #3	SW	X				6:30 P 7/2/14	SS TSS	1-1LPLAS 1-1/2 L PLAS	Y	11.8 13.6	
843	SITE #4	SW	X				6:40 P 7/2/14	SS TSS	1-1LPLAS 1-1/2 L PLAS	Y	14.9 15.5	
844	SITE #5	SW	X				6:45 P 7/2/14	SS TSS	1-1LPLAS 1-1/2 L PLAS	Y	16.8 19.6	
845	SITE #6	SW	X				6:55 P 7/2/14	SS TSS	1-1LPLAS 1-1/2 L PLAS	Y	17.0 14.4	
846	SITE #7	SW	X				7:15 P 7/2/14	SS TSS	1-1LPLAS 1-1/2 L PLAS	Y	15.8 18.6	
847	DUPLICATE	SW	X				6:40 P 7/2/14	SS TSS	1-1LPLAS 1-1/2 L PLAS	Y	20.8 19.7	

Sampled By: (Name) Allen W. WHEEL

(Title) SR OPERATOR

I hereby affirm that the information above is true and complete to the best of

my knowledge. I also affirm that I am responsible for payment, unless other payment arrangements are approved in advance by Smith Laboratory.

Sample Relinquished By: Allen W. WHEEL

Received By: \_\_\_\_\_

Date: 8/7/2/14 Time: 8:10pm

Sample Relinquished By: \_\_\_\_\_

Received at Lab By: DMD/AA

Sample(s) received met the following requirements

Thermal Preservation: NA ☒ Yes ☐ No

Chemical Preservation: NA ☒ Yes ☐ No

Correct Bottle Type ☒ Yes ☐ No

Other \_\_\_\_\_

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



Attachment 1 - Sampling Event Summary Sheet

SAMPLING EVENT # 15

Initials:

AA

Date:

7-7-14

Page

of

Sampling Team:

A. Adin / A. W. Schell / R. Snelson

Weather:

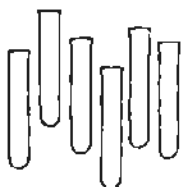
H-H-H

Temperature: ALGA 80°

Direction of Flow:

LOW TIDE 4:09 PM.

Sampling Location	Time	Field Parameter	Physical Observations	Comments
SITE #1: MID-ROUND CREEK APPROX. 250 YDS UPSTREAM OF WILBUR AVE. OUTFALL	LATITUDE: 41.906 LONGITUDE: 74.004 1:48 P	DO 8.1 mg/L temperature 25.9°C	Grease NONE Floatables NONE Odors NONE	TIDE: OUT EAST APPROX. 15 YDS WESTERLY OF FEELEY DRY DOCK AT PROPERTY BOUNDARY BETWEEN FEELEY AND RECYCLING BUSINESS
SITE #2: MID-ROUND CREEK - UPSTREAM OF BLOCK PARK	LAT: 41.912 LONG: 73.992 1:57 P	DO 7.9 mg/L temperature 24.8°C	Grease NONE Floatables NONE Odors NONE	TIDE: OUT EAST 50 YDS SOUTHERLY OF ISLAND DOCK CAUSEWAY CULVERTS
SITE #3: MID-ROUND CREEK APPROX. 150 YDS UPSTREAM OF OLD BRIDGE	LAT: 41.914 LONG: 73.985 2:05 P	DO 7.7 mg/L temperature 24.8°C	Grease NONE Floatables NONE Odors NONE	TIDE: OUT EAST 25 YDS SOUTHERLY OF OLD STEEL BOILER PROTRUDING FROM WATER NEAR ISLAND DOCK BULKHEAD
SITE #6: MID-ROUND CREEK UNDER NEW BRIDGE	LAT: 41.918 LONG: 73.981 2:07 P	DO 8.0 mg/L temperature 24.9°C	Grease NONE Floatables NONE Odors NONE	TIDE: OUT EAST 50 YDS SOUTHERLY MAINTENANCE SHED F CLEARWATER BLE SLIDE DOORS
SITE #4: MID-ROUND CREEK APPROX. 200 YDS DOWNSTREAM OF NEW BRIDGE	LAT: 41.919 LONG: 73.979 2:10 P	DO 8.0 mg/L temperature 24.6°C	Grease NONE Floatables NONE Odors NONE	TIDE: OUT EAST 50 YDS SOUTHERLY RESTAURANT COVER STEELHOUSE PATIO
SITE #5: MID-ROUND CREEK UPSTREAM OF BLOCK PARK	LAT: 41.922 LONG: 73.969 2:15 P	DO 7.7 mg/L temperature 25.7°C	Grease NONE Floatables NONE Odors NONE	TIDE: OUT EAST 50 YDS SOUTHERLY CROSSING WARMING GAS LINE SN
SITE #7: MID-ROUND CREEK APPROX 3/4 MILE UPSTREAM OF EDDYVILLE DAM AT NYSDEC BOAT LAUNCH	LAT: 73.967 LONG: 41.890 2:40 P	DO 6.5 temperature 25.1	Grease NONE Floatables NONE Odors	FLOW: ALWAYS EAST NOT TIDAL. STRAIGHT EAD BOAT LAUNCH DOWNSTREAM - LOCATION FROM WESTERLY
Duplicate	LAT: 41.890 LONG: 74.01 SITE #4	DO temperature	Grease Floatables Odors	SITE #4



# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek  
**Sample Type:** Surface Water  
**Order comment:**  
**Order ID:** 122441

---

**Sample Number:** 217954  
**Sample Location:** Site #1, grab  
**Sample Comment:** FC rec'd at 7.7 deg C.  
**Date/Time sample collected:** 7/7/2014 13:48  
**Date/Time sample received:** 7/7/2014 16:00  
**Date/Time sample analyzed:** 7/7/2014 17:20

**Collected By:** RS  
**Received by:** Amy Jo  
**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	150	CFU/100mL	SM 18 9222D

---

\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

09-Jul-14

*Smith Laboratory is approved as an Environmental Testing Laboratory in conformance with the National Environmental Laboratory Accreditation Conference (NELAC) Standards. This test report pertains only to the above items analyzed on this sample as received by the laboratory. Information supplied by the client is assumed to be correct.*





# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek  
**Sample Type:** Surface Water  
**Order comment:**  
**Order ID:** 122441

---

**Sample Number:** 217855  
**Sample Location:** Site #2, grab  
**Sample Comment:** FC rec'd at 6.6 deg C.  
**Date/Time sample collected:** 7/7/2014 13:57  
**Date/Time sample received:** 7/7/2014 16:00  
**Date/Time sample analyzed:** 7/7/2014 17:20

**Collected By:** RS  
**Received by:** Amy Jo  
**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	100	CFU/100mL	SM 18 9222D

---

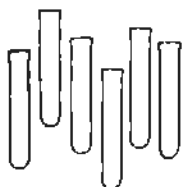
\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

  
Reviewed by: Lab Manager, ELAP Lab ID #10924

09-Jul-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek  
**Sample Type:** Surface Water  
**Order comment:**  
**Order ID:** 122441

---

**Sample Number:** 217956  
**Sample Location:** Site #3, grab  
**Sample Comment:** FC rec'd at 5.8 deg C.  
**Date/Time sample collected:** 7/7/2014 14:05  
**Date/Time sample received:** 7/7/2014 16:00  
**Date/Time sample analyzed:** 7/7/2014 17:20

**Collected By:** RS  
**Received by:** Amy Jo  
**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	60	CFU/100mL	SM 18 9222D

---

\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

09-Jul-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-8536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek  
**Sample Type:** Surface Water  
**Order comment:**  
**Order ID:** 122441

---

**Sample Number:** 217857  
**Sample Location:** Site #4, grab  
**Sample Comment:** FC rec'd at 9.6 deg C.  
**Date/Time sample collected:** 7/7/2014 14:10  
**Date/Time sample received:** 7/7/2014 16:00  
**Date/Time sample analyzed:** 7/7/2014 17:20

**Collected By:** RS  
**Received by:** Amy Jo  
**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	100	CFU/100mL	SM 18 9222D

---

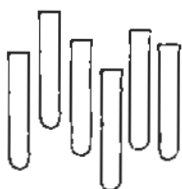
\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

09-Jul-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-8538

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek  
**Sample Type:** Surface Water  
**Order comment:**  
**Order ID:** 122441

---

**Sample Number:** 217958  
**Sample Location:** Site #5, grab  
**Sample Comment:** FC rec'd at 8.1 deg C.  
**Date/Time sample collected:** 7/7/2014 14:15 **Collected By:** RS  
**Date/Time sample received:** 7/7/2014 16:00 **Received by:** Amy Jo  
**Date/Time sample analyzed:** 7/7/2014 17:20 **Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	40	CFU/100mL	SM 16 9222D

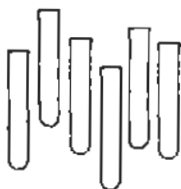
\*Bacteriological test results are expressed as Colony Forming Units

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

09-Jul-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6538

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office

Attn: Alan Adin

420 Broadway

Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek

**Sample Type:** Surface Water

**Order comment:**

**Order ID:** 122441

---

**Sample Number:** 217959

**Sample Location:** Site #6, grab

**Sample Comment:** FC rec'd at 5.7 deg C.

**Date/Time sample collected:** 7/7/2014 14:07

**Collected By:** RS

**Date/Time sample received:** 7/7/2014 16:00

**Received by:** Amy Jo

**Date/Time sample analyzed:** 7/7/2014 17:20

**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	110	CFU/100mL	SM 18 9222D

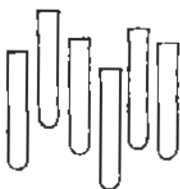
\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by Lab Manager, ELAP Lab ID #10924

09-Jul-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office

Attn: Alan Adin

420 Broadway

Kingston

NY 12401

PO #

**Client Project Name:** Rondout Creek

**Sample Type:** Surface Water

**Order comment:**

**Order ID:** 122441

**Sample Number:** 217960

**Sample Location:** Site #7, grab

**Sample Comment:** FC rec'd at 13.5 deg C

**Date/Time sample collected:** 7/7/2014 14:40

**Collected By:** RS

**Date/Time sample received:** 7/7/2014 16:00

**Received by:** Amy Jo

**Date/Time sample analyzed:** 7/7/2014 17:20

**Tech:** SS

Parameter	Test Result*	Units	Test Method
Fecal Coliform	60	CFU/100mL	SM 18 9222D

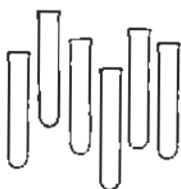
\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

09-Jul-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-8536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek  
**Sample Type:** Surface Water  
**Order comment:**  
**Order ID:** 122441

---

**Sample Number:** 217961  
**Sample Location:** Duplicate, grab  
**Sample Comment:** FC rec'd at 6.3 deg C.  
**Date/Time sample collected:** 7/7/2014 14:10 **Collected By:** RS  
**Date/Time sample received:** 7/7/2014 16:00 **Received by:** Amy Jo  
**Date/Time sample analyzed:** 7/7/2014 17:20 **Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	110	CFU/100mL	SM 18.9222D

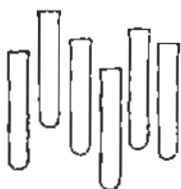
\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

09-Jul-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-8536

## CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

Client Project Name: Rondout Creek  
Sample Type: Water  
Order comment:  
Order ID: 122441

Sample Number: 217976  
Sample Location: Blank-QC  
Sample Comment: 100 mL buffered rinse water used  
Date/Time sample collected: 7/7/2014 17:20  
Date/Time sample received: 7/7/2014 17:20  
Date/Time sample analyzed: 7/7/2014 17:20

Collected By:  
Received by: Amy Jo  
Tech: SS

Parameter	Test Result*	Units	Test Method
Fecal Coliform	< 1	CFU/100mL	SM 18 9222D

\*Bacteriological test results are expressed as Colony Forming Units

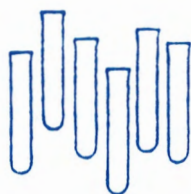
Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

09-Jul-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

**Sample Type:** Surface Water  
**Client Project Name:** Rondout Creek  
**Order comment:**

**Order ID:** 122441 **Sample Number:** 217954  
**Sample Location:** Site #1, grab  
**Date/Time sample collected:** 7/7/2014 13:48  
**Date/Time samples received:** 7/7/2014 16:00  
**Sample Comment:** FC rec'd at 7.7 deg C.

**Sample Collected By:** RS  
**Sample Received by:** Amy Jo

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Total Suspended Solids	5	mg/L	SM20 2540 D	7/8/2014		SW
Solids, Settleable	< 0.1	mL/L	SM20 2540F	7/7/2014	16:35	SW

**Order ID:** 122441 **Sample Number:** 217955  
**Sample Location:** Site #2, grab  
**Date/Time sample collected:** 7/7/2014 13:57  
**Date/Time samples received:** 7/7/2014 16:00  
**Sample Comment:** FC rec'd at 6.6 deg C.

**Sample Collected By:** RS  
**Sample Received by:** Amy Jo

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Total Suspended Solids	6	mg/L	SM20 2540 D	7/8/2014		SW
Solids, Settleable	< 0.1	mL/L	SM20 2540F	7/7/2014	16:35	SW

**Order ID:** 122441 **Sample Number:** 217956  
**Sample Location:** Site #3, grab  
**Date/Time sample collected:** 7/7/2014 14:05  
**Date/Time samples received:** 7/7/2014 16:00  
**Sample Comment:** FC rec'd at 5.8 deg C.

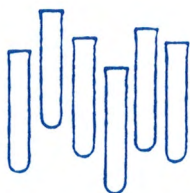
**Sample Collected By:** RS  
**Sample Received by:** Amy Jo

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Total Suspended Solids	6	mg/L	SM20 2540 D	7/8/2014		SW
Solids, Settleable	< 0.1	mL/L	SM20 2540F	7/7/2014	16:35	SW

**Order ID:** 122441 **Sample Number:** 217957  
**Sample Location:** Site #4, grab  
**Date/Time sample collected:** 7/7/2014 14:10  
**Date/Time samples received:** 7/7/2014 16:00  
**Sample Comment:** FC rec'd at 9.6 deg C.

**Sample Collected By:** RS  
**Sample Received by:** Amy Jo

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Total Suspended Solids	4	mg/L	SM20 2540 D	7/8/2014		SW
Solids, Settleable	< 0.1	mL/L	SM20 2540F	7/7/2014	16:35	SW



# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

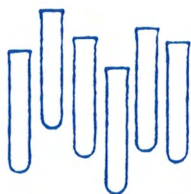
PO #

Order ID: 122441 Sample Number: 217958  
Sample Location: Site #5, grab  
Date/Time sample collected: 7/7/2014 14:15 Sample Collected By: RS  
Date/Time samples received: 7/7/2014 16:00 Sample Received by: Amy Jo  
Sample Comment: FC rec'd at 8.1 deg C.  
Parameter: Test Result Units Test Method Test Date Test Time Tech\*\*  
Total Suspended Solids 5 mg/L SM20 2540 D 7/8/2014 SW  
Solids, Settleable < 0.1 mL/L SM20 2540F 7/7/2014 16:35 SW

Order ID: 122441 Sample Number: 217959  
Sample Location: Site #6, grab  
Date/Time sample collected: 7/7/2014 14:07 Sample Collected By: RS  
Date/Time samples received: 7/7/2014 16:00 Sample Received by: Amy Jo  
Sample Comment: FC rec'd at 5.7 deg C.  
Parameter: Test Result Units Test Method Test Date Test Time Tech\*\*  
Total Suspended Solids 4 mg/L SM20 2540 D 7/8/2014 SW  
Solids, Settleable < 0.1 mL/L SM20 2540F 7/7/2014 16:35 SW

Order ID: 122441 Sample Number: 217960  
Sample Location: Site #7, grab  
Date/Time sample collected: 7/7/2014 14:40 Sample Collected By: RS  
Date/Time samples received: 7/7/2014 16:00 Sample Received by: Amy Jo  
Sample Comment: FC rec'd at 13.5 deg C.  
Parameter: Test Result Units Test Method Test Date Test Time Tech\*\*  
Total Suspended Solids 4 mg/L SM20 2540 D 7/8/2014 SW  
Solids, Settleable < 0.1 mL/L SM20 2540F 7/7/2014 16:35 SW

Order ID: 122441 Sample Number: 217961  
Sample Location: Duplicate, grab  
Date/Time sample collected: 7/7/2014 14:10 Sample Collected By: RS  
Date/Time samples received: 7/7/2014 16:00 Sample Received by: Amy Jo  
Sample Comment: FC rec'd at 6.3 deg C.  
Parameter: Test Result Units Test Method Test Date Test Time Tech\*\*  
Total Suspended Solids 5 mg/L SM20 2540 D 7/8/2014 SW  
Solids, Settleable < 0.1 mL/L SM20 2540F 7/7/2014 16:35 SW



# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

### Results Comment:

Reviewed by: Laboratory Manager, ELAP Lab ID #10924

21-Jul-14

Key: < = less than; A=Analysis performed over holding time; C=degrees Celsius; B=BOD blank depletion was greater than 0.2 mg/L; D=Elevated reporting limit; Est=Estimated Value; H=Sample received over analysis holding time; J=Result estimated below quantitation limit; MCL=New York State Maximum Contaminant Level; MDL=Method Detection Limit; mg/kg=milligrams per kilogram dry weight; mg/L=milligrams per Liter; mL/L=milliliters per Liter; ND=Not Detected; NTU=Nephelometric Turbidity Units; PtCo=Platinum Cobalt Units; Q=Not all QC data met acceptance criteria; SI = Saturation Index; SU=Standard pH Units; TON=Threshold Odor Number at 44.5 degrees C; ug/L-micrograms per Liter; umho/cm=micromhos per centimeter; V=Value above quantitation range; \*ELAP/NELAC does not offer certification for this analyte; \*\*ELAP ID is listed for sub-contract laboratory

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Total number of pages in this report, including chain of custody, is 4

SMITH LABORATORY  
4 Scenic Drive  
Hyde Park, NY 12538-1313  
Phone: 845-229-6536  
Fax: 845-229-6538

## CHAIN OF CUSTODY

Turnaround Time: Standard ☒  
**RUSH** ☐ (Rush surcharge applies)  
\*\* Date report requested:

Copy results to  
Local Health Dept.  
Yes ☐ No ☒

Login Review: tw  
Amt Due:  
Amt Paid:  
Pmt Method :  
Receipt No:

Client Name: CITY OF KINGSTON

Client Phone No: 845-334-3968 Project/Facility Name: RONDOUT CREEK

Mailing Address: 420 BROADWAY

Client Email: aadin@kingston-ny.gov Location: \_\_\_\_\_

KINGSTON, NY 12401

Copy Report To: RALPH SWENSON PWS Fed ID No: NY- \_\_\_\_\_

### LAB USE ONLY

### CLIENT: COMPLETE THE SAMPLE INFORMATION IN THE SPACE PROVIDED BELOW

### LAB USE ONLY

Order ID No: <u>122411</u> Sample No:	Sample Identification & Sample Point	Matrix	(Check One)			Treatment Type & Residual	Date/Time Sampled	Analysis Requested	Container & Preservative	Iced Y/N	Sample Temp. Deg C	Pres. at Lab Y/N
			Grab	Comp # hrs	First Draw							
<u>217954916</u>	SITE #1	SW	X				<u>1:48P</u>	SS TSS	1-1LPLAS 1-1/2 L PLAS	<u>Y</u>	<u>6.6</u>	<u>5.3</u>
<u>955</u>	SITE #2	SW	X				<u>1:57P</u>	SS TSS	1-1LPLAS 1-1/2 L PLAS	<u>Y</u>	<u>5.3</u>	<u>4.9</u>
<u>956</u>	SITE #3	SW	X				<u>2:05P</u>	SS TSS	1-1LPLAS 1-1/2 L PLAS	<u>Y</u>	<u>4.9</u>	<u>5.1</u>
<u>957</u>	SITE #4	SW	X				<u>2:10P</u>	SS TSS	1-1LPLAS 1-1/2 L PLAS	<u>Y</u>	<u>4.9</u>	<u>4.5</u>
<u>958</u>	SITE #5	SW	X				<u>2:15P</u>	SS TSS	1-1LPLAS 1-1/2 L PLAS	<u>Y</u>	<u>5.1</u>	<u>4.1</u>
<u>959</u>	SITE #6	SW	X				<u>2:07P</u>	SS TSS	1-1LPLAS 1-1/2 L PLAS	<u>Y</u>	<u>4.7</u>	<u>3.8</u>
<u>960</u>	SITE #7	SW	X				<u>2:40P</u>	SS TSS	1-1LPLAS 1-1/2 L PLAS	<u>Y</u>	<u>18.6</u>	<u>15.1</u>
<u>961</u>	DUPLICATE	SW	X				<u>2:10P</u>	SS TSS	1-1LPLAS 1-1/2 L PLAS	<u>Y</u>	<u>5.8</u>	<u>4.0</u>

Sampled By: (Name) RALPH SWENSON (Title) CITY ENGINEER I hereby affirm that the information above is true and complete to the best of my knowledge. I also affirm that I am responsible for payment, unless other payment arrangements are approved in advance by Smith Laboratory.

Sample Relinquished By: AZAD ADIN

Received By: \_\_\_\_\_

Date: \_\_\_\_\_ Time: \_\_\_\_\_

Sample Relinquished By: \_\_\_\_\_

Received at Lab By: [Signature]

Date: 7/7/14 Time: 1600

Sample(s) received met the following requirements

Thermal Preservation: NA ☒ Yes ☐ No

Chemical Preservation: NA ☒ Yes ☐ No

Correct Bottle Type ☒ Yes ☐ No

Other \_\_\_\_\_

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



Initials:

(AT)

Date: 7-18-14

Page \_\_\_ of \_\_\_

Sampling Team:

A. ADIN / R. SWENSON / A. WINCHELL

Weather:

CLEAR

Temperature:

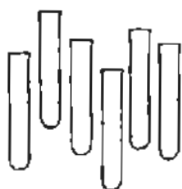
LOW 80°

Direction of Flow:

OUT EASTERLY

LOW TIDE 1:30 PM.

Sampling Location	Time	Field Parameter	Physical Observations	Comments
SITE #1: MID-ROAD CREEK APPROX. 250 YDS UPSTREAM OF WILBUR AVE. OUTFALL	LATITUDE: 41.907 LONGITUDE: 74.004 11:13 AM	DO 7.1 mg/L temperature 20.5°C	Grease NONE Floatables NONE Odors NONE	TIDE: OUT EASTERLY APPROX. 15 YDS WESTERLY OF FEELEY DRY DOCK AT PROPERTY BOUNDARY BETWEEN FEELEY AND RECYCLING BUSINESS
SITE #2: MID-ROAD CREEK - UPSTREAM OF BLOCK PARK	LAT: 41.912 LONG: 73.992 11:28 AM	DO 7.2 mg/L temperature 25.7°C	Grease NONE Floatables NONE Odors NONE	TIDE: OUT EASTERLY 50 YDS SOUTHERLY OF ISLAND DOCK CAUSEWAY CULVERTS
SITE #3: MID-ROAD CREEK APPROX. 150 YDS UPSTREAM OF OLD BRIDGE	LAT: 41.915 LONG: 73.985 11:34 AM	DO 7.3 mg/L temperature 25.5°C	Grease NONE Floatables NONE Odors NONE	TIDE: OUT EASTERLY 25 YDS SOUTHERLY OF OLD STEEL BOILER PROTRUDING FROM WATER NEAR ISLAND DOCK BULKHEAD
SITE #6: MID-ROAD CREEK UNDER NEW BRIDGE	LAT: 41.918 LONG: 73.981 11:40 AM	DO 7.3 mg/L temperature 25.1°C	Grease NONE Floatables NONE Odors NONE	TIDE: OUT EAST 50 YDS SOUTHERLY MAINTENANCE SHED IF CLEAR WATER BLE SLIDE DOORS
SITE #4: MID-ROAD CREEK APPROX. 200 YDS DOWNSTREAM OF NEW BRIDGE	LAT: 41.919 LONG: 73.974 11:44 AM	DO 7.2 mg/L temperature 25.0°C	Grease NONE Floatables NONE Odors NONE	TIDE: OUT EAST 50 YDS SOUTHERLY RESTAURANT COVER STEELHOUSE PATIO
SITE #5: MID-ROAD CREEK UPSTREAM OF BLOCK PARK	LAT: 41.922 LONG: 73.969 11:52 AM	DO 7.4 mg/L temperature 24.8°C	Grease NONE Floatables NONE Odors NONE	TIDE: OUT EAST 50 YDS SOUTHERLY CROSSING WARMING GAS LINE IGN
SITE #7: MID-ROAD CREEK APPROX. 3/4 MILE UPSTREAM OF EDDYVILLE DAM AT NYSDEC BOAT LAUNCH	LAT: 41.890 LONG: 74.01 12:30 PM	DO 7.1 mg/L temperature 25.5°C	Grease NONE Floatables NONE Odors NONE	FLOW: ALWAYS EASTERN TIDAL. STRAIGHT END BOAT LAUNCH DOWNSTREAM - LOCATION T FROM WESTERLY
Duplicate	LAT: LONG: SITE #5	DO temperature	Grease Floatables Odors	SITE #15



# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-8536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek  
**Sample Type:** Surface Water  
**Order comment:**  
**Order ID:** 122820

---

**Sample Number:** 218783  
**Sample Location:** Site #1, grab  
**Sample Comment:** FC rec'd at 8.1 deg C.  
**Date/Time sample collected:** 7/18/2014 11:13 **Collected By:** RS/AA  
**Date/Time sample received:** 7/18/2014 14:00 **Received by:** Amy Jo  
**Date/Time sample analyzed:** 7/18/2014 16:50 **Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	10	CFU/100mL	SM 18 9222D

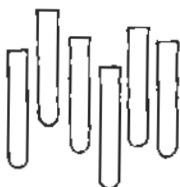
\*Bacteriological test results are expressed as Colony Forming Units

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

22-Jul-14

*Smith Laboratory is approved as an Environmental Testing Laboratory in conformance with the National Environmental Laboratory Accreditation Conference (NELAC) Standards. This test report pertains only to the above items analyzed on this sample as received by the laboratory. Information supplied by the client is assumed to be correct.*



# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-8536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek  
**Sample Type:** Surface Water  
**Order comment:**  
**Order ID:** 122820

---

**Sample Number:** 218784  
**Sample Location:** Site #2, grab  
**Sample Comment:** FC rec'd at 9.8 deg C.  
**Date/Time sample collected:** 7/18/2014 11:28  
**Date/Time sample received:** 7/18/2014 14:00  
**Date/Time sample analyzed:** 7/18/2014 16:50

**Collected By:** RS/AA  
**Received by:** Amy Jo  
**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	20	CFU/100mL	SM 18 9222D

---

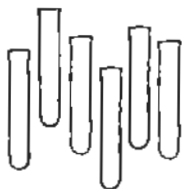
\*Bacteriological test results are expressed as Colony Forming Units

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

22-Jul-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 228-8538

## CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

Client Project Name: Rondout Creek  
Sample Type: Surface Water  
Order comment:  
Order ID: 122820

---

Sample Number: 218785  
Sample Location: Site #3, grab  
Sample Comment: FC rec'd at 8.2 deg C.  
Date/Time sample collected: 7/18/2014 11:34  
Date/Time sample received: 7/18/2014 14:00  
Date/Time sample analyzed: 7/18/2014 16:50

Collected By: RS/AA  
Received by: Amy Jo  
Tech: SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	30	CFU/100mL	SM 18 9222D

---

\*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

22-Jul-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-8536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office

Attn: Alan Adin

420 Broadway

Kingston

NY 12401

PO #

**Client Project Name:** Rondout Creek

**Sample Type:** Surface Water

**Order comment:**

**Order ID:** 122820

**Sample Number:** 218786

**Sample Location:** Site #4, grab

**Sample Comment:** FC rec'd at 9.8 deg C.

**Date/Time sample collected:** 7/18/2014 11:44

**Collected By:** RS/AA

**Date/Time sample received:** 7/18/2014 14:00

**Received by:** Amy Jo

**Date/Time sample analyzed:** 7/18/2014 16:50

**Tech:** SS

Parameter	Test Result*	Units	Test Method
Fecal Coliform	50	CFU/100mL	SM 18 9222D

\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

22-Jul-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek  
**Sample Type:** Surface Water  
**Order comment:**  
**Order ID:** 122820

---

**Sample Number:** 218787  
**Sample Location:** Site #5, grab  
**Sample Comment:** FC rec'd at 11.7 deg C.  
**Date/Time sample collected:** 7/18/2014 11:52 **Collected By:** RS/AA  
**Date/Time sample received:** 7/18/2014 14:00 **Received by:** Amy Jo  
**Date/Time sample analyzed:** 7/18/2014 16:50 **Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	50	CFU/100mL	SM 18 9222D

\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

22-Jul-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek  
**Sample Type:** Surface Water  
**Order comment:**  
**Order ID:** 122820

---

**Sample Number:** 218788  
**Sample Location:** Site #6, grab  
**Sample Comment:** FC rec'd at 9.8 deg C.  
**Date/Time sample collected:** 7/18/2014 11:40  
**Date/Time sample received:** 7/18/2014 14:00  
**Date/Time sample analyzed:** 7/18/2014 16:50

**Collected By:** RS/AA  
**Received by:** Amy Jo  
**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	60	CFU/100mL	SM 18 9222D

---

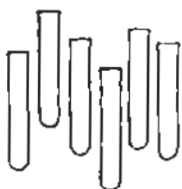
\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10824

22-Jul-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6538

## CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

Client Project Name: Rondout Creek  
Sample Type: Surface Water  
Order comment:  
Order ID: 122820

Sample Number: 218789  
Sample Location: Site #7, grab  
Sample Comment: FC rec'd at 19.0 deg C  
Date/Time sample collected: 7/18/2014 12:30  
Date/Time sample received: 7/18/2014 14:00  
Date/Time sample analyzed: 7/18/2014 16:50

Collected By: RS/AA  
Received by: Amy Jo  
Tech: SS

Parameter	Test Result*	Units	Test Method
Fecal Coliform	< 10	CFU/100mL	SM 18 9222D

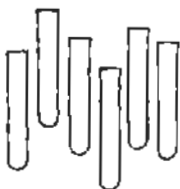
\*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by Lab Manager, ELAP Lab ID #10924

22-Jul-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek  
**Sample Type:** Surface Water  
**Order comment:**  
**Order ID:** 122820

---

**Sample Number:** 218790  
**Sample Location:** Duplicate, grab  
**Sample Comment:** FC rec'd at 3.4 deg C.  
**Date/Time sample collected:** 7/18/2014 11:52  
**Date/Time sample received:** 7/18/2014 14:00  
**Date/Time sample analyzed:** 7/18/2014 16:50

**Collected By:** RS/AA  
**Received by:** Amy Jo  
**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	90	CFU/100mL	SM 18 9222D

---

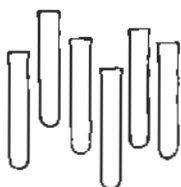
\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

22-Jul-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-8538

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office

Attn: Alan Adin

420 Broadway

Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek

**Sample Type:**

**Order comment:**

**Order ID:** 122820

---

**Sample Number:** 218833

**Sample Location:** Blank QC

**Sample Comment:** 100 mL of buffered rinse water used.

**Date/Time sample collected:** 7/18/2014 16:50

**Collected By:**

**Date/Time sample received:** 7/18/2014 16:50

**Received by:** Army Jo

**Date/Time sample analyzed:** 7/18/2014 16:50

**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	< 1	CFU/100mL	SM 18 9222D

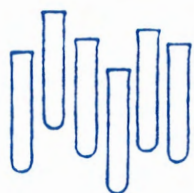
\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

**Reviewed by:** Lab Manager, ELAP Lab ID #10924

22-Jul-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

**Sample Type:** Surface Water  
**Client Project Name:** Rondout Creek  
**Order comment:**

**Order ID:** 122820 **Sample Number:** 218783

**Sample Location:** Site #1, grab

**Date/Time sample collected:** 7/18/2014 11:13

**Sample Collected By:** RS/AA

**Date/Time samples received:** 7/18/2014 14:00

**Sample Received by:** Amy Jo

**Sample Comment:** FC rec'd at 8.1 deg C.

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Total Suspended Solids	2	mg/L	SM20 2540 D	7/23/2014		SW
Solids, Settleable	< 0.1	mL/L	SM20 2540F	7/18/2014	15:20	SW

**Order ID:** 122820 **Sample Number:** 218784

**Sample Location:** Site #2, grab

**Date/Time sample collected:** 7/18/2014 11:28

**Sample Collected By:** RS/AA

**Date/Time samples received:** 7/18/2014 14:00

**Sample Received by:** Amy Jo

**Sample Comment:** FC rec'd at 9.8 deg C.

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Total Suspended Solids	3	mg/L	SM20 2540 D	7/23/2014		SW
Solids, Settleable	< 0.1	mL/L	SM20 2540F	7/18/2014	15:20	SW

**Order ID:** 122820 **Sample Number:** 218785

**Sample Location:** Site #3, grab

**Date/Time sample collected:** 7/18/2014 11:34

**Sample Collected By:** RS/AA

**Date/Time samples received:** 7/18/2014 14:00

**Sample Received by:** Amy Jo

**Sample Comment:** FC rec'd at 8.2 deg C.

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Total Suspended Solids	2	mg/L	SM20 2540 D	7/23/2014		SW
Solids, Settleable	< 0.1	mL/L	SM20 2540F	7/18/2014	15:20	SW

**Order ID:** 122820 **Sample Number:** 218786

**Sample Location:** Site #4, grab

**Date/Time sample collected:** 7/18/2014 11:44

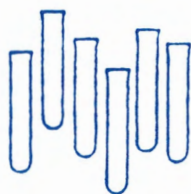
**Sample Collected By:** RS/AA

**Date/Time samples received:** 7/18/2014 14:00

**Sample Received by:** Amy Jo

**Sample Comment:** FC rec'd at 9.8 deg C.

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Total Suspended Solids	6	mg/L	SM20 2540 D	7/23/2014		SW
Solids, Settleable	< 0.1	mL/L	SM20 2540F	7/18/2014	15:20	SW



# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

**Order ID:** 122820      **Sample Number:** 218787  
**Sample Location:** Site #5, grab  
**Date/Time sample collected:** 7/18/2014 11:52      **Sample Collected By:** RS/AA  
**Date/Time samples received:** 7/18/2014 14:00      **Sample Received by:** Amy Jo  
**Sample Comment:** FC rec'd at 11.7 deg C.

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Total Suspended Solids	2	mg/L	SM20 2540 D	7/23/2014		SW
Solids, Settleable	< 0.1	mL/L	SM20 2540F	7/18/2014	15:20	SW

---

**Order ID:** 122820      **Sample Number:** 218788  
**Sample Location:** Site #6, grab  
**Date/Time sample collected:** 7/18/2014 11:40      **Sample Collected By:** RS/AA  
**Date/Time samples received:** 7/18/2014 14:00      **Sample Received by:** Amy Jo  
**Sample Comment:** FC rec'd at 9.8 deg C.

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Total Suspended Solids	3	mg/L	SM20 2540 D	7/23/2014		SW
Solids, Settleable	< 0.1	mL/L	SM20 2540F	7/18/2014	15:20	SW

---

**Order ID:** 122820      **Sample Number:** 218789  
**Sample Location:** Site #7, grab  
**Date/Time sample collected:** 7/18/2014 12:30      **Sample Collected By:** RS/AA  
**Date/Time samples received:** 7/18/2014 14:00      **Sample Received by:** Amy Jo  
**Sample Comment:** FC rec'd at 19.0 deg C.

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Total Suspended Solids	4	mg/L	SM20 2540 D	7/23/2014		SW
Solids, Settleable	< 0.1	mL/L	SM20 2540F	7/18/2014	15:20	SW

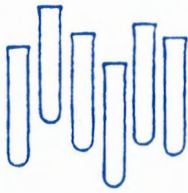
---

**Order ID:** 122820      **Sample Number:** 218790  
**Sample Location:** Duplicate, grab  
**Date/Time sample collected:** 7/18/2014 11:52      **Sample Collected By:** RS/AA  
**Date/Time samples received:** 7/18/2014 14:00      **Sample Received by:** Amy Jo  
**Sample Comment:** FC rec'd at 3.4 deg C.

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Total Suspended Solids	4	mg/L	SM20 2540 D	7/23/2014		SW
Solids, Settleable	< 0.1	mL/L	SM20 2540F	7/18/2014	15:20	SW

---





# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

### Results Comment:

Reviewed by: Laboratory Manager, ELAP Lab ID #10924

25-Jul-14

Key: < = less than; A=Analysis performed over holding time; C=degrees Celsius; B=BOD blank depletion was greater than 0.2 mg/L; D=Elevated reporting limit; Est=Estimated Value; H=Sample received over analysis holding time; J=Result estimated below quantitation limit; MCL=New York State Maximum Contaminant Level; MDL=Method Detection Limit; mg/kg=milligrams per kilogram dry weight; mg/L=milligrams per Liter; mL/L=milliliters per Liter; ND=Not Detected; NTU=Nephelometric Turbidity Units; PtCo=Platinum Cobalt Units; Q=Not all QC data met acceptance criteria; SI = Saturation Index; SU=Standard pH Units; TON=Threshold Odor Number at 44.5 degrees C; ug/L=micrograms per Liter; umho/cm=micromhos per centimeter; V=Value above quantitation range; \*ELAP/NELAC does not offer certification for this analyte; \*\*ELAP ID is listed for sub-contract laboratory

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Total number of pages in this report, including chain of custody, is 4

SMITH LABORATORY  
4 Scenic Drive  
Hyde Park, NY 12538-1313  
Phone: 845-229-6536  
Fax: 845-229-6538

## CHAIN OF CUSTODY

Turnaround Time: Standard ☒  
**RUSH** ☐ (Rush surcharge applies)  
\*\* Date report requested: \_\_\_\_\_

Copy results to  
Local Health Dept.  
Yes ☐ No ☒

Login Review: Red  
Amt Due: \_\_\_\_\_  
Amt Paid: \_\_\_\_\_  
Pmt Method: \_\_\_\_\_  
Receipt No: \_\_\_\_\_

Client Name: CITY OF KINGSTON

Client Phone No: 845-334-3968 Project/Facility Name: RONDOUT CREEK

Mailing Address: 420 BROADWAY

Client Email: aadin@kingston-ny.gov Location: \_\_\_\_\_

KINGSTON, NY 12401

Copy Report To: RALPH SWENSON PWS Fed ID No: NY- \_\_\_\_\_

### LAB USE ONLY

### CLIENT: COMPLETE THE SAMPLE INFORMATION IN THE SPACE PROVIDED BELOW

### LAB USE ONLY

Order ID No: <u>122820</u> Sample No:	Sample Identification & Sample Point	Matrix	(Check One)			Treatment Type & Residual	Date/Time Sampled	Analysis Requested	Container & Preservative	Iced Y/N	Sample Temp, Deg C	Pres. at Lab Y/N
			Grab	Comp # hrs	First Draw							
<u>21878345</u>	SITE #1	SW	X				<u>11:13A</u>	SS TSS	1-1LPLAS 1-1/2 L PLAS	<u>✓</u>	<u>16.4</u> <u>9.2</u>	<u>N</u>
<u>784</u>	SITE #2	SW	X				<u>11:28A</u>	SS TSS	1-1LPLAS 1-1/2 L PLAS		<u>9.1</u> <u>13.1</u>	<u>✓</u>
<u>785</u>	SITE #3	SW	X				<u>11:34A</u>	SS TSS	1-1LPLAS 1-1/2 L PLAS		<u>16.4</u> <u>9.4</u>	<u>✓</u>
<u>786</u>	SITE #4	SW	X				<u>11:44A</u>	SS TSS	1-1LPLAS 1-1/2 L PLAS		<u>20.7</u> <u>9.3</u>	<u>✓</u>
<u>787</u>	SITE #5	SW	X				<u>11:52A</u>	SS TSS	1-1LPLAS 1-1/2 L PLAS		<u>20.1</u> <u>11.6</u>	<u>✓</u>
<u>788</u>	SITE #6	SW	X				<u>11:40A</u>	SS TSS	1-1LPLAS 1-1/2 L PLAS		<u>21.1</u> <u>12.0</u>	<u>✓</u>
<u>789</u>	SITE #7	SW	X				<u>12:30P</u>	SS TSS	1-1LPLAS 1-1/2 L PLAS		<u>20.6</u> <u>12.4</u>	<u>✓</u>
<u>790</u>	DUPLICATE	SW	X				<u>11:52A</u>	SS TSS	1-1LPLAS 1-1/2 L PLAS		<u>20.4</u> <u>15.5</u>	<u>✓</u>

Sampled By: (Name) RALPH SWENSON / ALAN ADIN

(Title) CITY ENGINEER /

I hereby affirm that the information above is true and complete to the best of my knowledge. I also affirm that I am responsible for payment, unless other payment arrangements are approved in advance by Smith Laboratory.

Sample Relinquished By: ALAN ADIN

Received By: \_\_\_\_\_

Date: \_\_\_\_\_ Time: \_\_\_\_\_

Sample Relinquished By: \_\_\_\_\_

Received at Lab By: JA

Date: 7/18/14 Time: 1400

Sample(s) received met the following requirements

Thermal Preservation: NA ☒ Yes ☐ No

Chemical Preservation: NA ☒ Yes ☐ No

Correct Bottle Type ☒ Yes ☐ No

Other \_\_\_\_\_

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## Attachment 1 - Sampling Event Summary Sheet

Initials:

AA

Date: 7-23-14

Page \_\_\_ of \_\_\_

Sampling Team:

A. ADIN/A. WINCHELL/T. RODZEWSKI

Weather:

H-H-H. clear

Temperature:

low 80's

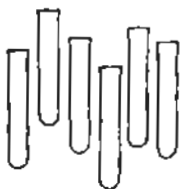
Direction of Flow:

IN WESTERLY

HIGH TIDE 11:52A

Sampling Location	Time	Field Parameter	Physical Observations	Comments
SITE #1: MID-ROUND CREEK APPROX. 250 YDS UPSTREAM OF WILBUR AVE. OUTFALL	LATITUDE: 41.907 LONGITUDE: 73.904 10:05 A	DO 6.9 mg/L temperature 27.1°C	Grease NONE Floatables NONE Odors NONE	TIDE: IN WESTERLY APPROX. 15 YDS WESTERLY OF FEEHEY DRY DOCK AT PROPERTY BOUNDARY BETWEEN FEEHEY AND RECYCLING BUSINESS
SITE #2: MID-ROUND CREEK - UPSTREAM OF BLOCK PARK	LAT: 41.912 LONG: 73.942 10:15 A.	DO 7.7 mg/L temperature 26.2°C	Grease NONE Floatables NONE Odors NONE	TIDE: IN WESTERLY 50 YDS SOUTHERLY OF ISLAND DOCK CAUSEWAY CULVERTS
SITE #3: MID-ROUND CREEK APPROX. 150 YDS UPSTREAM OF OLD BRIDGE	LAT: 41.915 LONG: 73.985 10:22 A.	DO 7.9 mg/L temperature 26.2°C	Grease NONE Floatables NONE Odors NONE	TIDE: IN WESTERLY 25 YDS SOUTHERLY BOILER PROTRUDING ISLAND DOCK BULKHEAD
SITE #6: MID-ROUND CREEK UNDER NEW BRIDGE	LAT: 41.918 LONG: 73.981 10:35 A	DO 7.9 mg/L temperature 26.5°C	Grease NONE Floatables NONE Odors NONE	TIDE: IN WESTERLY 50 YDS SOUTHERLY MAINTENANCE SHED
SITE #4: MID-ROUND CREEK APPROX. 200 YDS DOWNSTREAM OF NEW BRIDGE	LAT: 41.919 LONG: 73.979 10:38 A	DO 8.1 mg/L temperature 26.4°C	Grease NONE Floatables MINIMAL Odors NONE	TIDE: IN WESTERLY 50 YDS SOUTHERLY RESTAURANT COVER VEGETATIVE
SITE #5: MID-ROUND CREEK UPSTREAM OF BLOCK PARK	LAT: 41.922 LONG: 73.969 10:46 A	DO 6.8 mg/L temperature 26.9°C	Grease NONE Floatables SOME Odors NONE	TIDE: IN WESTERLY 50 YDS SOUTHERLY CROSSING WARWICK - SN MORE VEGETATIVE
SITE #7: MID-ROUND CREEK APPROX. 3/4 MILE UPSTREAM OF EDDYVILLE DAM AT NYSDEC BOAT LAUNCH	LAT: 41.894 LONG: 73.01 11:27 A.	DO 6.0 mg/L temperature 26.4°C	Grease NONE Floatables NONE Odors NONE	FLOW: ALWAYS EASTERLY (DOWNSTREAM) - LOCATION NOT TIDAL. STRAIGHT OUT FROM WESTERLY END BOAT LAUNCH
DUPLICATE	LAT: LONG: SITE #6	DO temperature	Grease Floatables Odors	SITE #6

WATER IS MORE DISCOLORED "BROWN"  
GAS LINE  
LARGER DEBRIS



# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-8538

## CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

Attn: Alan Adin

420 Broadway

Kingston

NY 12401

PO #

Client Project Name: Rondout Creek

Sample Type: Surface Water

Order comment:

Order ID: 122910

Sample Number: 218963

Sample Location: Site #1, grab

Sample Comment: FC rec'd at 8.9 deg C.

Date/Time sample collected: 7/23/2014 10:05

Collected By: AA

Date/Time sample received: 7/23/2014 12:35

Received by: Amy Jo

Date/Time sample analyzed: 7/23/2014 16:20

Tech: SS

Parameter	Test Result*	Units	Test Method
Fecal Coliform	80	CFU/100mL	SM 18 9222D

\*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

  
Reviewed by Lab Manager, ELAP Lab ID #10924

25-Jul-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-8538

## CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

Attn: Alan Adin

420 Broadway

Kingston

NY 12401

PO #

Client Project Name: Rondout Creek

Sample Type: Surface Water

Order comment:

Order ID: 122910

Sample Number: 218964

Sample Location: Site #2, grab

Sample Comment: FC rec'd at 7.6 deg C.

Date/Time sample collected: 7/23/2014 10:15

Collected By: AA

Date/Time sample received: 7/23/2014 12:35

Received by: Amy Jo

Date/Time sample analyzed: 7/23/2014 16:20

Tech: SS

Parameter	Test Result*	Units	Test Method
Fecal Coliform	30	CFU/100mL	SM 18 9222D

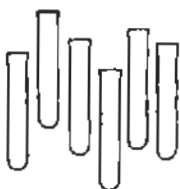
\*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

25-Jul-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-8538

## CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

Client Project Name: Rondout Creek  
Sample Type: Surface Water  
Order comment:  
Order ID: 122910

---

Sample Number: 218965  
Sample Location: Site #3, grab  
Sample Comment: FC rec'd at 7.3 deg C.  
Date/Time sample collected: 7/23/2014 10:22 Collected By: AA  
Date/Time sample received: 7/23/2014 12:35 Received by: Amy Jo  
Date/Time sample analyzed: 7/23/2014 16:20 Tech: SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	40	CFU/100mL	SM 18 9222D

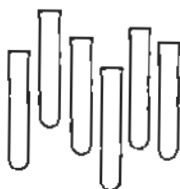
\*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

25-Jul-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek  
**Sample Type:** Surface Water  
**Order comment:**  
**Order ID:** 122910

---

**Sample Number:** 218966  
**Sample Location:** Site #4, grab  
**Sample Comment:** FC rec'd at 9.9 deg C.  
**Date/Time sample collected:** 7/23/2014 10:38 **Collected By:** AA  
**Date/Time sample received:** 7/23/2014 12:35 **Received by:** Amy Jo  
**Date/Time sample analyzed:** 7/23/2014 16:20 **Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	30	CFU/100mL	SM 18 9222D

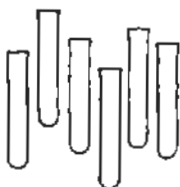
\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

25-Jul-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

Client Project Name: Rondout Creek  
Sample Type: Surface Water  
Order comment:  
Order ID: 122910

---

Sample Number: 218967  
Sample Location: Site #5, grab  
Sample Comment: FC rec'd at 14.1 deg C.  
Date/Time sample collected: 7/23/2014 10:46  
Date/Time sample received: 7/23/2014 12:35  
Date/Time sample analyzed: 7/23/2014 16:20

Collected By: AA  
Received by: Amy Jo  
Tech: SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	70	CFU/100mL	SM 18 9222D

---

\*Bacteriological test results are expressed as Colony Forming Units.

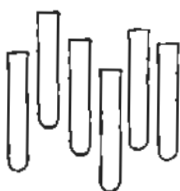
Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

25-Jul-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-8538

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek  
**Sample Type:** Surface Water  
**Order comment:**  
**Order ID:** 122910

---

**Sample Number:** 218968  
**Sample Location:** Site #6, grab  
**Sample Comment:** FC rec'd at 6.8 deg C.  
**Date/Time sample collected:** 7/23/2014 10:35  
**Date/Time sample received:** 7/23/2014 12:35  
**Date/Time sample analyzed:** 7/23/2014 16:20

**Collected By:** AA  
**Received by:** Amy Jo  
**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	50	CFU/100mL	SM 18 9222D

---

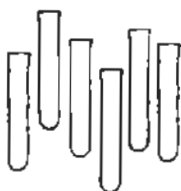
\*Bacteriological test results are expressed as Colony Forming Units

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

25-Jul-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 228-8536

## CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

Client Project Name: Rondout Creek  
Sample Type: Surface Water  
Order comment:  
Order ID: 122910

---

Sample Number: 218969  
Sample Location: Site #7, grab  
Sample Comment: FC rec'd at 15.7 deg C.  
Date/Time sample collected: 7/23/2014 11:27  
Date/Time sample received: 7/23/2014 12:35  
Date/Time sample analyzed: 7/23/2014 16:20

Collected By: AA  
Received by: Amy Jo  
Tech: SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	< 10	CFU/100mL	SM 18 9222D

---

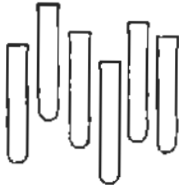
\*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

  
Reviewed by: Lab Manager, ELAP Lab ID #10924

25-Jul-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek  
**Sample Type:** Surface Water  
**Order comment:**  
**Order ID:** 122910

---

**Sample Number:** 218970  
**Sample Location:** Duplicate, Site #8, grab  
**Sample Comment:** FC rec'd at 9.9 deg C.  
**Date/Time sample collected:** 7/23/2014 10:35 **Collected By:** AA  
**Date/Time sample received:** 7/23/2014 12:35 **Received by:** Amy Jo  
**Date/Time sample analyzed:** 7/23/2014 16:20 **Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	40	CFU/100mL	SM 18 9222D

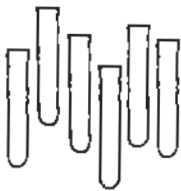
\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

25-Jul-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-8536

## CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

Client Project Name: Rondout Creek  
Sample Type: Water  
Order comment:  
Order ID: 122910

---

Sample Number: 219065  
Sample Location: Blank QC  
Sample Comment: 100 mL of buffered rinse water used  
Date/Time sample collected: 7/23/2014 16:20 Collected By:  
Date/Time sample received: 7/23/2014 16:20 Received by: Amy Jo  
Date/Time sample analyzed: 7/23/2014 16:20 Tech: SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	< 1	CFU/100mL	SM 18 9222D

\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

25-Jul-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

Sample Type: Surface Water  
Client Project Name: Rondout Creek  
Order comment:

Order ID: 122910 Sample Number: 218963  
Sample Location: Site #1, grab  
Date/Time sample collected: 7/23/2014 10:05  
Date/Time samples received: 7/23/2014 12:35  
Sample Comment: FC rec'd at 8.9 deg C.

Sample Collected By: Alan Adin  
Sample Received by: Amy Jo

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Total Suspended Solids	2	mg/L	SM20 2540 D	7/23/2014		SW
Solids, Settleable	< 0.1	mL/L	SM20 2540F	7/23/2014	14:00	SW

Order ID: 122910 Sample Number: 218964  
Sample Location: Site #2, grab  
Date/Time sample collected: 7/23/2014 10:15  
Date/Time samples received: 7/23/2014 12:35  
Sample Comment: FC rec'd at 7.6 deg C.

Sample Collected By: Alan Adin  
Sample Received by: Amy Jo

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Total Suspended Solids	2	mg/L	SM20 2540 D	7/23/2014		SW
Solids, Settleable	< 0.1	mL/L	SM20 2540F	7/23/2014	14:00	SW

Order ID: 122910 Sample Number: 218965  
Sample Location: Site #3, grab  
Date/Time sample collected: 7/23/2014 10:22  
Date/Time samples received: 7/23/2014 12:35  
Sample Comment: FC rec'd at 7.3 deg C.

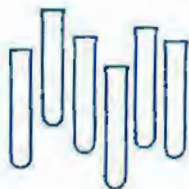
Sample Collected By: Alan Adin  
Sample Received by: Amy Jo

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Total Suspended Solids	4	mg/L	SM20 2540 D	7/23/2014		SW
Solids, Settleable	< 0.1	mL/L	SM20 2540F	7/23/2014	14:00	SW

Order ID: 122910 Sample Number: 218966  
Sample Location: Site #4, grab  
Date/Time sample collected: 7/23/2014 10:38  
Date/Time samples received: 7/23/2014 12:35  
Sample Comment: FC rec'd at 9.9 deg C.

Sample Collected By: Alan Adin  
Sample Received by: Amy Jo

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Total Suspended Solids	4	mg/L	SM20 2540 D	7/23/2014		SW
Solids, Settleable	< 0.1	mL/L	SM20 2540F	7/23/2014	14:00	SW



# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

**Order ID:** 122910      **Sample Number:** 218967  
**Sample Location:** Site #5, grab  
**Date/Time sample collected:** 7/23/2014 10:46      **Sample Collected By:** Alan Adin  
**Date/Time samples received:** 7/23/2014 12:35      **Sample Received by:** Amy Jo  
**Sample Comment:** FC rec'd at 14.1 deg C.

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Total Suspended Solids	5	mg/L	SM20 2540 D	7/23/2014		SW
Solids, Settleable	< 0.1	mL/L	SM20 2540F	7/23/2014	14:00	SW

---

**Order ID:** 122910      **Sample Number:** 218968  
**Sample Location:** Site #6, grab  
**Date/Time sample collected:** 7/23/2014 10:35      **Sample Collected By:** Alan Adin  
**Date/Time samples received:** 7/23/2014 12:35      **Sample Received by:** Amy Jo  
**Sample Comment:** FC rec'd at 6.8 deg C.

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Total Suspended Solids	3	mg/L	SM20 2540 D	7/23/2014		SW
Solids, Settleable	< 0.1	mL/L	SM20 2540F	7/23/2014	14:00	SW

---

**Order ID:** 122910      **Sample Number:** 218969  
**Sample Location:** Site #7, grab  
**Date/Time sample collected:** 7/23/2014 11:27      **Sample Collected By:** Alan Adin  
**Date/Time samples received:** 7/23/2014 12:35      **Sample Received by:** Amy Jo  
**Sample Comment:** FC rec'd at 15.7 deg C.

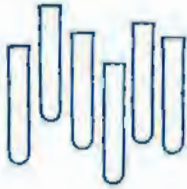
Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Total Suspended Solids	< 1	mg/L	SM20 2540 D	7/23/2014		SW
Solids, Settleable	< 0.1	mL/L	SM20 2540F	7/23/2014	14:00	SW

---

**Order ID:** 122910      **Sample Number:** 218970  
**Sample Location:** Duplicate, Site #8, grab  
**Date/Time sample collected:** 7/23/2014 10:35      **Sample Collected By:** Alan Adin  
**Date/Time samples received:** 7/23/2014 12:35      **Sample Received by:** Amy Jo  
**Sample Comment:** FC rec'd at 9.9 deg C.

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Total Suspended Solids	3	mg/L	SM20 2540 D	7/23/2014		SW
Solids, Settleable	< 0.1	mL/L	SM20 2540F	7/23/2014	14:00	SW

---



# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6538

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

**Results Comment:**

**Reviewed by:** Laboratory Manager, ELAP Lab ID #10924

11-Aug-14

Key: < = less than; A=Analysis performed over holding time; C=degrees Celsius; B=BOD blank depletion was greater than 0.2 mg/L; D=Elevated reporting limit; Est=Estimated Value; H=Sample received over analysis holding time; J=Result estimated below quantitation limit; MCL=New York State Maximum Contaminant Level; MDL=Method Detection Limit; mg/kg=milligrams per kilogram dry weight; mg/L=milligrams per Liter; mL/L=milliliters per Liter; ND=Not Detected; NTU=Nephelometric Turbidity Units; PtCo=Platinum Cobalt Units; Q=Not all QC data met acceptance criteria; SI = Saturation Index; SU=Standard pH Units; TON=Threshold Odor Number at 44.5 degrees C; ug/L-micrograms per Liter; umho/cm=micromhos per centimeter; V=Value above quantitation range; \*ELAP/NELAC does not offer certification for this analyte; \*\*ELAP ID is listed for sub-contract laboratory

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Total number of pages in this report, including chain of custody, is 4



<b>SMITH LABORATORY</b> 4 Scenic Drive Hyde Park, NY 12538-1313 Phone: 845-229-6536 Fax: 845-229-6538		<b>CHAIN OF CUSTODY</b>		Login Review: <u>KW</u>	
				Amt Due:	
				Amt Paid:	
				Pmt Method:	
				Receipt No:	
Turnaround Time: Standard <input checked="" type="checkbox"/> <b>RUSH</b> <input type="checkbox"/> ( <i>Rush surcharge applies</i> ) ** Date report requested: _____		Copy results to Local Health Dept. Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>			

Client Name: CITY OF KINGSTON Client Phone No: 845-334-3968 Project/Facility Name: RONDOUT CREEK  
 Mailing Address: 420 BROADWAY Client Email: aadin@kingston-ny.gov Location: \_\_\_\_\_  
KINGSTON, NY 12401 Copy Report To: RALPH SWENSON PWS Fed ID No: NY-

LAB USE ONLY		CLIENT: COMPLETE THE SAMPLE INFORMATION IN THE SPACE PROVIDED BELOW								LAB USE ONLY		
Order ID No: <u>122910</u> Sample No:	Sample Identification & Sample Point	Matrix	(Check One)			Treatment Type & Residual	Date/Time Sampled <u>7-23-14</u>	Analysis Requested	Container & Preservative	Iced Y/N	Sample Temp, Deg C	Pres. at Lab Y/N
			Grab	Comp # hrs	First Draw							
<u>218963410</u>	SITE #1	SW	X				<u>10:05A</u>	SS TSS	1-1LPLAS 1-1/2 L PLAS	<u>Y</u>	<u>12.4/8.2</u>	<u>N</u>
<u>964</u>	SITE #2	SW	X				<u>10:15A</u>	SS TSS	1-1LPLAS 1-1/2 L PLAS		<u>8.9/8.7</u>	
<u>965</u>	SITE #3	SW	X				<u>10:22A</u>	SS TSS	1-1LPLAS 1-1/2 L PLAS		<u>7.9/5.4</u>	
<u>966</u>	SITE #4	SW	X				<u>10:38A</u>	SS TSS	1-1LPLAS 1-1/2 L PLAS		<u>9.4/8.6</u>	
<u>967</u>	SITE #5	SW	X				<u>10:46A</u>	SS TSS	1-1LPLAS 1-1/2 L PLAS		<u>11.3/9.6</u>	
<u>968</u>	SITE #6	SW	X				<u>10:35A</u>	SS TSS	1-1LPLAS 1-1/2 L PLAS		<u>6.6/8.2</u>	
<u>969</u>	SITE #7	SW	X				<u>11:27A</u>	SS TSS	1-1LPLAS 1-1/2 L PLAS		<u>11.6/10.8</u>	
<u>970</u>	DUPLICATE	SW	X				<u>10:35A</u>	SS TSS	1-1LPLAS 1-1/2 L PLAS		<u>11.9/11.3</u>	

Sampled By: (Name) ALAN ADIN (Title) ENGINEERING TECH I hereby affirm that the information above is true and complete to the best of my knowledge. I also affirm that I am responsible for payment, unless other payment arrangements are approved in advance by Smith Laboratory.

Sample Relinquished By: ALAN ADIN Received By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Sample Relinquished By: C Received at Lab By: [Signature] Date: 7/23/14 Time: 1235

Sample(s) received met the following requirements Thermal Preservation: NA <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Chemical Preservation: NA <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Correct Bottle Type <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Other _____	Comments: _____ _____ _____ _____
--	--



WET WEATHER

SAMPLING EVENT # 16

Initials:

Sampling Team:

Weather:

Direction of Flow:

Date: 7/37/14

Page \_\_\_ of \_\_\_

Temperature:

80°-85°

AW Winchell / R. Terpening  
P. Cloudy  
INCOMING  
HIGH TIDE @ 2:50 P

Sampling Location	Time	Field Parameter	Physical Observations	Comments
SITE #1: MID-ROADOUT CREEK APPROX. 250 YDS UPSTREAM OF WILBUR AVE. OUTFALL	LATITUDE: 41.906 LONGITUDE: 74.004 1:18 P	DO 6.8 temperature 28.6°C	Grease NONE Floatables NONE Odors NONE	TIDE: INCOMING APPROX. 15 YDS WESTERLY OF FEENEY DRY DOCK AT PROPERTY BOUNDARY BETWEEN FEENEY AND RECYCLING BUSINESS
SITE #2: MID-ROADOUT CREEK - UPSTREAM OF BLOCK PARK	LAT: 41.912 LONG: 74.993 1:29 P	DO 7.2 temperature 27.7°C	Grease NONE Floatables NONE Odors NONE	TIDE: INCOMING 50 YDS SOUTHERLY OF ISLAND DOCK CAUSEWAY CULVERTS
SITE #3: MID-ROADOUT CREEK APPROX. 150 YDS UPSTREAM OF OLD BRIDGE	LAT: 41.914 LONG: 73.984 1:36 P	DO 7.4 temperature 27.4°C	Grease NONE Floatables NONE Odors NONE	TIDE: INCOMING 25 YDS SOUTHERLY OF OLD STEEL BOILER PROTRUDING FROM WATER NEAR ISLAND DOCK BULKHEAD
SITE #6: MID-ROADOUT CREEK UNDER NEW BRIDGE	LAT: 41.918 LONG: 73.981 1:41 P	DO 7.7 temperature 26.5°C	Grease NONE Floatables NONE Odors NONE	TIDE: INCOMING 50 YDS SOUTHER MAINTENANCE SHE F CLEARWATER BLE SLIDE DOORS
SITE #4: MID-ROADOUT CREEK APPROX. 200 YDS DOWNSTREAM OF NEW BRIDGE	LAT: 41.919 LONG: 73.979	DO 7.4 temperature 26.4°C	Grease NONE Floatables NONE Odors NONE	TIDE: INCOMING 50 YDS SOUTHER RESTAURANT COM F STEELHOUSE PATIO
SITE #5: MID-ROADOUT CREEK UPSTREAM OF BLOCK PARK	LAT: 41.921 LONG: 73.965	DO 6.8 temperature 27.3	Grease NONE Floatables SOME Odors NONE	TIDE: INCOMING 50 YDS SOUTHERL CROSSING WARMU BROWN TO F GAS LINE IGN 4 WATER
SITE #7: MID-ROADOUT CREEK APPROX. 3/4 MILE UPSTREAM OF EDDYVILLE DAM AT NYSDEL BOAT LAUNCH	LAT: 41.980 LONG: 73.015	DO 6.1 temperature 26.8	Grease NONE Floatables NONE Odors NONE	FLOW: ALWAYS EAST NOT TIDAL. STRAIGHT END BOAT LAUNCH DOWNSTREAM - LOCATION T FROM WESTERLY
DUPPLICATE	LAT: LONG: SITE #7	DO temperature	Grease Floatables Odors	SITE #7



# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6538

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek  
**Sample Type:** Surface Water  
**Order comment:** Samples rec'd in lab drop box  
**Order ID:** 123005

---

**Sample Number:** 219182  
**Sample Location:** site #1  
**Sample Comment:** FC rec'd at 8.8 deg C.  
**Date/Time sample collected:** 7/27/2014 13:18  
**Date/Time sample received:** 7/27/2014 16:30  
**Date/Time sample analyzed:** 7/27/2014 17:50

**Collected By:** Rich Terpening  
**Received by:** Anne  
**Tech:** AGS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	60	CFU/100mL	SM 18 9222D

---

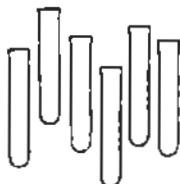
\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

29-Jul-14

*Smith Laboratory is approved as an Environmental Testing Laboratory in conformance with the National Environmental Laboratory Accreditation Conference (NELAC) Standards. This test report pertains only to the above items analyzed on this sample as received by the laboratory. Information supplied by the client is assumed to be correct.*



# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek  
**Sample Type:** Surface Water  
**Order comment:** Samples rec'd in lab drop box  
**Order ID:** 123005

---

---

**Sample Number:** 219183  
**Sample Location:** site #2  
**Sample Comment:** FC rec'd at 9.0 deg C.  
**Date/Time sample collected:** 7/27/2014 13:29  
**Date/Time sample received:** 7/27/2014 16:30  
**Date/Time sample analyzed:** 7/27/2014 17:50

**Collected By:** Rich Terpening  
**Received by:** Anne  
**Tech:** AGS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	380	CFU/100mL	SM 18 9222D

\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

29-Jul-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-8536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office

Attn: Alan Adin

420 Broadway

Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek  
**Sample Type:** Surface Water  
**Order comment:** Samples rec'd in lab drop box  
**Order ID:** 123005

---

**Sample Number:** 219184  
**Sample Location:** site #3  
**Sample Comment:** FC rec'd at 8 deg C.  
**Date/Time sample collected:** 7/27/2014 13:36  
**Date/Time sample received:** 7/27/2014 16:30  
**Date/Time sample analyzed:** 7/27/2014 17:50

**Collected By:** Rich Terpening  
**Received by:** Anne  
**Tech:** AGS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	140	CFU/100mL	SM 18 9222D

\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

29-Jul-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek  
**Sample Type:** Surface Water  
**Order comment:** Samples rec'd in lab drop box  
**Order ID:** 123005

---

**Sample Number:** 219185  
**Sample Location:** site #4  
**Sample Comment:** FC rec'd at 10 deg C.  
**Date/Time sample collected:** 7/27/2014 13:44  
**Date/Time sample received:** 7/27/2014 16:30  
**Date/Time sample analyzed:** 7/27/2014 17:50

**Collected By:** Rich Terpening  
**Received by:** Anne  
**Tech:** AGS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	60	CFU/100mL	SM 18 9222D

---

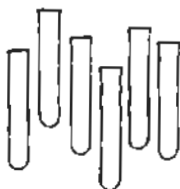
\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

29-Jul-14

*Smith Laboratory is approved as an Environmental Testing Laboratory in conformance with the National Environmental Laboratory Accreditation Conference (NELAC) Standards. This test report pertains only to the above items analyzed on this sample as received by the laboratory. Information supplied by the client is assumed to be correct.*



# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-8538

## CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

Client Project Name: Rondout Creek  
Sample Type: Surface Water  
Order comment: Samples rec'd in lab drop box  
Order ID: 123005

---

Sample Number: 219186  
Sample Location: site #5  
Sample Comment: FC rec'd at 11 deg C.  
Date/Time sample collected: 7/27/2014 13:50 Collected By: Rich Terpening  
Date/Time sample received: 7/27/2014 16:30 Received by: Anne  
Date/Time sample analyzed: 7/27/2014 18:00 Tech: AGS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	< 10	CFU/100mL	SM 18 9222D

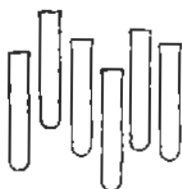
\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

29-Jul-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 8  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek  
**Sample Type:** Surface Water  
**Order comment:** Samples rec'd in lab drop box  
**Order ID:** 123005

---

---

**Sample Number:** 219187  
**Sample Location:** site #6  
**Sample Comment:** FC rec'd at 11 deg C.  
**Date/Time sample collected:** 7/27/2014 13:41  
**Date/Time sample received:** 7/27/2014 16:30  
**Date/Time sample analyzed:** 7/27/2014 18:00

---

**Collected By:** Rich Terpening  
**Received by:** Anne  
**Tech:** AGS

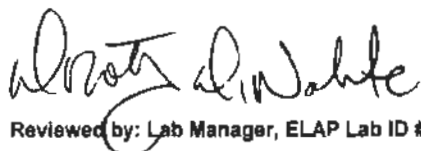
---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	30	CFU/100mL	SM 18 9222D

---

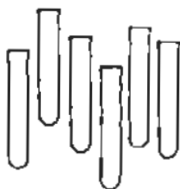
\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

  
Reviewed by: Lab Manager, ELAP Lab ID #10824

29-Jul-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-8536

## CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

Attn: Alan Adin

420 Broadway

Kingston

NY 12401

PO #

---

Client Project Name: Rondout Creek  
Sample Type: Surface Water  
Order comment: Samples rec'd in lab drop box  
Order ID: 123005

---

Sample Number: 219188  
Sample Location: site #7  
Sample Comment: FC rec'd at 9.5 deg C.  
Date/Time sample collected: 7/27/2014 14:25 Collected By: Rich Terpening  
Date/Time sample received: 7/27/2014 16:30 Received by: Anne  
Date/Time sample analyzed: 7/27/2014 18:00 Tech: AGS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	< 10	CFU/100mL	SM 18 9222D

\*Bacteriological test results are expressed as Colony Forming Units.

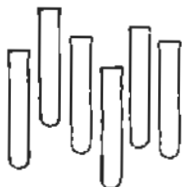
Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10824

29-Jul-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek  
**Sample Type:** Surface Water  
**Order comment:** Samples rec'd in lab drop box  
**Order ID:** 123005

---

**Sample Number:** 219189  
**Sample Location:** duplicate/site #7  
**Sample Comment:** FC rec'd at 10 deg C.  
**Date/Time sample collected:** 7/27/2014 14:25  
**Date/Time sample received:** 7/27/2014 16:30  
**Date/Time sample analyzed:** 7/27/2014 18:00

**Collected By:** Rich Terpening  
**Received by:** Anne  
**Tech:** AGS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	< 10	CFU/100mL	SM 18 9222D

---

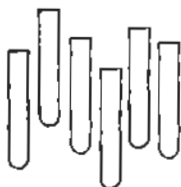
\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

29-Jul-14

*Smith Laboratory is approved as an Environmental Testing Laboratory in conformance with the National Environmental Laboratory Accreditation Conference (NELAC) Standards. This test report pertains only to the above items analyzed on this sample as received by the laboratory. Information supplied by the client is assumed to be correct.*



# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek  
**Sample Type:** Water  
**Order comment:** Samples rec'd in lab drop box  
**Order ID:** 123005

---

**Sample Number:** 219190  
**Sample Location:** Blank QC  
**Sample Comment:** 100 mL of buffered rinse water used  
**Date/Time sample collected:** 7/27/2014 17:50  
**Date/Time sample received:** 7/27/2014 17:50  
**Date/Time sample analyzed:** 7/27/2014 17:50

**Collected By:** Anne Smith  
**Received by:** Anne  
**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	< 1	CFU/100mL	SM 18 9222D

---

\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10024

29-Jul-14

*Smith Laboratory is approved as an Environmental Testing Laboratory in conformance with the National Environmental Laboratory Accreditation Conference (NELAC) Standards. This test report pertains only to the above items analyzed on this sample as received by the laboratory. Information supplied by the client is assumed to be correct.*



# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office

Attn: Alan Adin

420 Broadway

Kingston

NY 12401

PO #

**Sample Type:** Surface Water  
**Client Project Name:** Rondout Creek  
**Order comment:** Samples rec'd in lab drop box

**Order ID:** 123005 **Sample Number:** 219182  
**Sample Location:** site #1  
**Date/Time sample collected:** 7/27/2014 13:18  
**Date/Time samples received:** 7/27/2014 16:30  
**Sample Comment:** FC rec'd at 8.8 deg C.

**Sample Collected By:** Allen Winchell  
**Sample Received by:** Anne

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Total Suspended Solids	< 1	mg/L	SM20 2540 D	7/30/2014		SW
Solids, Settleable	< 0.1	mL/L	SM20 2540F	7/28/2014	11:00	SW

**Order ID:** 123005 **Sample Number:** 219183  
**Sample Location:** site #2  
**Date/Time sample collected:** 7/27/2014 13:29  
**Date/Time samples received:** 7/27/2014 16:30  
**Sample Comment:** FC rec'd at 9.0 deg C.

**Sample Collected By:** Allen Winchell  
**Sample Received by:** Anne

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Total Suspended Solids	4	mg/L	SM20 2540 D	7/30/2014		SW
Solids, Settleable	< 0.1	mL/L	SM20 2540F	7/28/2014	11:00	SW

**Order ID:** 123005 **Sample Number:** 219184  
**Sample Location:** site #3  
**Date/Time sample collected:** 7/27/2014 13:36  
**Date/Time samples received:** 7/27/2014 16:30  
**Sample Comment:** FC rec'd at 8 deg C.

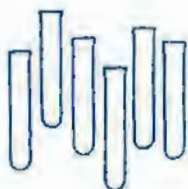
**Sample Collected By:** Allen Winchell  
**Sample Received by:** Anne

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Total Suspended Solids	4	mg/L	SM20 2540 D	7/30/2014		SW
Solids, Settleable	< 0.1	mL/L	SM20 2540F	7/28/2014	11:00	SW

**Order ID:** 123005 **Sample Number:** 219185  
**Sample Location:** site #4  
**Date/Time sample collected:** 7/27/2014 13:44  
**Date/Time samples received:** 7/27/2014 16:30  
**Sample Comment:** FC rec'd at 10 deg C.

**Sample Collected By:** Allen Winchell  
**Sample Received by:** Anne

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Total Suspended Solids	7	mg/L	SM20 2540 D	7/30/2014		SW
Solids, Settleable	< 0.1	mL/L	SM20 2540F	7/28/2014	11:00	SW



# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office

Attn: Alan Adin

420 Broadway

Kingston

NY 12401

PO #

---

**Order ID:** 123005      **Sample Number:** 219186  
**Sample Location:** site #5  
**Date/Time sample collected:** 7/27/2014 13:50      **Sample Collected By:** Allen Winchell  
**Date/Time samples received:** 7/27/2014 16:30      **Sample Received by:** Anne  
**Sample Comment:** FC rec'd at 11 deg C.  

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Total Suspended Solids	7	mg/L	SM20 2540 D	7/30/2014		SW
Solids, Settleable	< 0.1	mL/L	SM20 2540F	7/28/2014	11:00	SW

---

**Order ID:** 123005      **Sample Number:** 219187  
**Sample Location:** site #6  
**Date/Time sample collected:** 7/27/2014 13:41      **Sample Collected By:** Allen Winchell  
**Date/Time samples received:** 7/27/2014 16:30      **Sample Received by:** Anne  
**Sample Comment:** FC rec'd at 11 deg C.  

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Total Suspended Solids	5	mg/L	SM20 2540 D	7/30/2014		SW
Solids, Settleable	< 0.1	mL/L	SM20 2540F	7/28/2014	11:00	SW

---

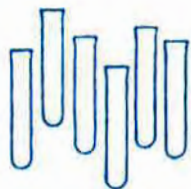
**Order ID:** 123005      **Sample Number:** 219188  
**Sample Location:** site #7  
**Date/Time sample collected:** 7/27/2014 14:25      **Sample Collected By:** Allen Winchell  
**Date/Time samples received:** 7/27/2014 16:30      **Sample Received by:** Anne  
**Sample Comment:** FC rec'd at 9.5 deg C.  

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Total Suspended Solids	2	mg/L	SM20 2540 D	7/30/2014		SW
Solids, Settleable	< 0.1	mL/L	SM20 2540F	7/28/2014	11:00	SW

---

**Order ID:** 123005      **Sample Number:** 219189  
**Sample Location:** duplicate/site #7  
**Date/Time sample collected:** 7/27/2014 14:25      **Sample Collected By:** Allen Winchell  
**Date/Time samples received:** 7/27/2014 16:30      **Sample Received by:** Anne  
**Sample Comment:** FC rec'd at 10 deg C.  

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Total Suspended Solids	< 1	mg/L	SM20 2540 D	7/30/2014		SW
Solids, Settleable	< 0.1	mL/L	SM20 2540F	7/28/2014	11:00	SW



# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6538

## CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

Order ID: 123005 Sample Number: 219190

Sample Location: Blank QC

Date/Time sample collected: 7/27/2014 17:50

Sample Collected By: Anne Smith

Date/Time samples received: 7/27/2014 17:50

Sample Received by: Anne

Sample Comment: 100 mL of buffered rinse water used

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Total Suspended Solids	< 1	mg/L	SM20 2540 D	7/30/2014		SW
Solids, Settleable	< 0.1	mL/L	SM20 2540F	7/28/2014	11:00	SW

Results Comment:

Reviewed by: Laboratory Manager, ELAP Lab ID #10924

11-Aug-14

Key: < = less than; A=Analysis performed over holding time; C=degrees Celsius; B=BOO blank depletion was greater than 0.2 mg/L; D=Elevated reporting limit; Est=Estimated Value; H=Sample received over analysis holding time; J=Result estimated below quantitation limit; MCL=New York State Maximum Contaminant Level; MDL=Method Detection Limit; mg/kg=milligrams per kilogram dry weight; mg/L=milligrams per Liter; mL/L=milliliters per Liter; ND=Not Detected; NTU=Nephelometric Turbidity Units; PtCo=Platinum Cobalt Units; Q=Not all QC data met acceptance criteria; SI = Saturation Index; SU=Standard pH Units; TON=Threshold Odor Number at 44.5 degrees C; ug/L-micrograms per Liter; umho/cm=micromhos per centimeter; V=Value above quantitation range; \*ELAP/NELAC does not offer certification for this analyte; \*\*ELAP ID is listed for sub-contract laboratory

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Total number of pages in this report, including chain of custody, is 4



SMITH LABORATORY  
4 Scenic Drive  
Hyde Park, NY 12538-1313  
Phone: 845-229-6536  
Fax: 845-229-6538

## CHAIN OF CUSTODY

Turnaround Time: Standard ☒  
**RUSH** ☐ (Rush surcharge applies)  
\*\* Date report requested:

Copy results to  
Local Health Dept.  
Yes ☐ No ☒

Login Review: AW  
Amt Due:  
Amt Paid:  
Pmt Method :  
Receipt No:

Client Name: CITY OF KINGSTON

Client Phone No: 845-334-3968 Project/Facility Name: ROUNDOUT CREEK

Mailing Address: 420 BROADWAY

Client Email: aadin@kingston-ny.gov Location:

KINGSTON, NY 12401

Copy Report To: RALPH SWENSON PWS Fed ID No: NY-

### LAB USE ONLY

### CLIENT: COMPLETE THE SAMPLE INFORMATION IN THE SPACE PROVIDED BELOW

### LAB USE ONLY

Order ID No: <u>123005</u> Sample No:	Sample Identification & Sample Point	Matrix	(Check One)			Treatment Type & Residual	Date/Time Sampled	Analysis Requested	Container & Preservative	Iced Y/N	Sample Temp, Deg C	Pres. at Lab Y/N
			Grab	Comp # hrs	First Draw							
<u>219182</u> A	SITE #1	SW	X				<u>7/27/14</u> <u>1:12P</u>	SS TSS	1-1LPLAS 1-1/2 L PLAS	Y	<u>9.9</u> <u>11.8</u>	N
<u>219183</u> A	SITE #2	SW	X				<u>7/27/14</u> <u>1:14P</u>	SS TSS	1-1LPLAS 1-1/2 L PLAS	Y	<u>11.9</u> <u>11.7</u>	N
<u>219184</u> A	SITE #3	SW	X				<u>7/27/14</u> <u>1:25P</u>	SS TSS	1-1LPLAS 1-1/2 L PLAS	Y	<u>12.3</u> <u>13.1</u>	N
<u>219185</u> A	SITE #4	SW	X				<u>7/27/14</u> <u>1:44P</u>	SS TSS	1-1LPLAS 1-1/2 L PLAS	Y	<u>12.0</u> <u>11.7</u>	N
<u>219186</u> A	SITE #5	SW	X				<u>7/27/14</u> <u>1:50P</u>	SS TSS	1-1LPLAS 1-1/2 L PLAS	Y	<u>11.9</u> <u>11.0</u>	N
<u>219187</u> A	SITE #6	SW	X				<u>7/27/14</u> <u>1:51P</u>	SS TSS	1-1LPLAS 1-1/2 L PLAS	Y	<u>12.0</u> <u>13.1</u>	N
<u>219188</u> A	SITE #7	SW	X				<u>7/27/14</u> <u>2:35P</u>	SS TSS	1-1LPLAS 1-1/2 L PLAS	Y	<u>12.1</u> <u>16.1</u>	N
<u>219189</u> A	DUPLICATE	SW	X				<u>7/27/14</u> <u>2:55P</u>	SS TSS	1-1LPLAS 1-1/2 L PLAS	Y	<u>17.8</u> <u>20.2</u>	N

Sampled By: (Name) Allen W. Patten (Title) SR OPERATOR I hereby affirm that the information above is true and complete to the best of my knowledge. I also affirm that I am responsible for payment, unless other payment arrangements are approved in advance by Smith Laboratory.

Sample Relinquished By: [Signature]

Received By: [Signature]

Date: 7/27/14 Time: 4:30 pm

Sample Relinquished By: [Signature]

Received at Lab By: [Signature]

Date: 7/27/14 Time: 4:30 pm

Sample(s) received met the following requirements

Thermal Preservation: NA ☒ Yes ☐ No

Chemical Preservation: NA ☒ Yes ☐ No

Correct Bottle Type ☒ Yes ☐ No

Other Rec'd in good condition once

Comments:

Attachment 1 - Sampling Event Summary Sheet

SAMPLING EVENT # 17

Initials:

SW

Date:

7/31/14

Page \_\_\_ of \_\_\_

Sampling Team:

SWIMMER / R. SWENSON

Weather:

cloudy

Temperature:

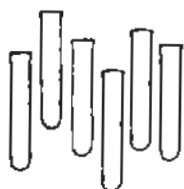
75°-80°

Direction of Flow:

OUT GOING HIGH TIDE

4:36 AM 5:27 PM

Sampling Location	Time	Field Parameter	Physical Observations	Comments
SITE #1: MID-ROAD CREEK APPROX. 250 YDS UPSTREAM OF WILBUR AVE. OUTFALL	LATITUDE: 41.906 LONGITUDE: 74.004 10:52A	DO 7.0 temperature 25.5°C	Grease NONE Floatables NONE Odors NONE	TIDE: _____ APPROX. 15 YDS WESTERLY OF FEEHEY DRY DOCK AT PROPERTY BOUNDARY BETWEEN FEEHEY AND RECYCLING BUSINESS OUT GOING
SITE #2: MID-ROAD CREEK - UPSTREAM OF BLOCK PARK	LAT: 41.912 LONG: 73.992 11:04A	DO 7.4 temperature 25.0°C	Grease NONE Floatables NONE Odors NONE	TIDE: _____ 50 YDS SOUTHERLY OF ISLAND DOCK CAUSEWAY CURVE OUTGOING
SITE #3: MID-ROAD CREEK APPROX. 150 YDS UPSTREAM OF OLD BRIDGE	LAT: 41.914 LONG: 73.981 11:11A	DO 7.4 temperature 25.3°C	Grease NONE Floatables NONE Odors NONE	TIDE: _____ 25 YDS SOUTHERLY OF OLD STEEL BOILER PROTRUDING FROM ISLAND DOCK BULKHEAD OUTGOING
SITE #6: MID-ROAD CREEK UNDER NEW BRIDGE	LAT: 41.918 LONG: 73.981 11:18A	DO 7.5 temperature 25.6	Grease NONE Floatables NONE Odors NONE	TIDE: _____ 50 YDS SOUTHERLY MAINTENANCE SHED IF CLEARWATER BLUE SLIDE DOORS OUTGOING
SITE #4: MID-ROAD CREEK APPROX. 200 YDS DOWNSTREAM OF NEW BRIDGE	LAT: 41.919 LONG: 73.978 11:25A	DO 7.5 temperature 25.5°C	Grease NONE Floatables NONE Odors NONE	TIDE: _____ 50 YDS SOUTHERLY OF STEELHOUSE RESTAURANT COVE PATIO OUTGOING
SITE #5: MID-ROAD CREEK UPSTREAM OF BLOCK PARK	LAT: 41.921 LONG: 73.969 11:32A	DO 7.6 temperature 25.6	Grease NONE Floatables NONE Odors NONE	TIDE: _____ 50 YDS SOUTHERLY OF GAS LINE CROSSING WARNING SIGN OUTGOING
SITE #7: MID-ROAD CREEK APPROX. 3/4 MILE UPSTREAM OF EDDYVILLE DAM AT WHEEL BOAT LAUNCH	LAT: 41.988 LONG: 73.015 12:10P	DO 4.8 temperature 25.3°	Grease NONE Floatables NONE Odors NONE	FLOW: ALWAYS EASTERLY (DOWNSTREAM) - LOCATION NOT TIDAL. STRAIGHT OUT FROM WESTERLY END BOAT LAUNCH OUTGOING
DUPLICATE	LAT: _____ LONG: _____ SITE #1	DO _____ temperature _____	Grease _____ Floatables _____ Odors _____	SITE #1



# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-8538

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek  
**Sample Type:** Surface Water  
**Order comment:**  
**Order ID:** 123138

---

**Sample Number:** 219465  
**Sample Location:** Site #1, grab  
**Sample Comment:** FC rec'd at 11.1 deg C  
**Date/Time sample collected:** 7/31/2014 10:52  
**Date/Time sample received:** 7/31/2014 15:00  
**Date/Time sample analyzed:** 7/31/2014 17:00

**Collected By:** Allen Winchell  
**Received by:** Karolina  
**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	20**	CFU/100mL	SM 18 9222D

\*Bacteriological test results are expressed as Colony Forming Units.

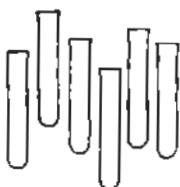
**Results Comment:** \*\*Sample was analyzed 62 mins outside of 6 hr. holding time.

Reviewed by: Lab Manager, ELAP Lab ID #10924

06-Aug-14

*Smith Laboratory is approved as an Environmental Testing Laboratory in conformance with the National Environmental Laboratory Accreditation Conference (NELAC) Standards. This test report pertains only to the above items analyzed on this sample as received by the laboratory. Information supplied by the client is assumed to be correct.*





# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 228-6538

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek  
**Sample Type:** Surface Water  
**Order comment:**  
**Order ID:** 123136

---

**Sample Number:** 219466  
**Sample Location:** Site #2, grab  
**Sample Comment:** FC rec'd at 8.1 deg C  
**Date/Time sample collected:** 7/31/2014 11:04  
**Date/Time sample received:** 7/31/2014 15:00  
**Date/Time sample analyzed:** 7/31/2014 17:00

**Collected By:** Allen Winchell  
**Received by:** Karolina  
**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	< 10	CFU/100mL	SM 18 9222D

---

\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

06-Aug-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-8538

## CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

Client Project Name: Rondout Creek  
Sample Type: Surface Water  
Order comment:  
Order ID: 123138

---

Sample Number: 219467  
Sample Location: Site #3, grab  
Sample Comment: FC rec'd at 8.3 deg C  
Date/Time sample collected: 7/31/2014 11:11  
Date/Time sample received: 7/31/2014 15:00  
Date/Time sample analyzed: 7/31/2014 17:00

Collected By: Allen Winchell  
Received by: Karolina  
Tech: SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	20	CFU/100mL	SM 18 9222D

---

\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

06-Aug-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-8536

## CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

Client Project Name: Rondout Creek  
Sample Type: Surface Water  
Order comment:  
Order ID: 123136

---

Sample Number: 219468  
Sample Location: Site #4, grab  
Sample Comment: FC rec'd at 7.7 deg C  
Date/Time sample collected: 7/31/2014 11:25  
Date/Time sample received: 7/31/2014 15:00  
Date/Time sample analyzed: 7/31/2014 17:00

Collected By: Allen Winchell  
Received by: Karolina  
Tech: SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	10	CFU/100mL	SM 18 9222D

---

\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

06-Aug-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office

Attn: Alan Adin

420 Broadway

Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek

**Sample Type:** Surface Water

**Order comment:**

**Order ID:** 123136

---

**Sample Number:** 219469

**Sample Location:** Site #5, grab

**Sample Comment:** FC rec'd at 7.8 deg C

**Date/Time sample collected:** 7/31/2014 11:32

**Collected By:** Allen Winchell

**Date/Time sample received:** 7/31/2014 15:00

**Received by:** Karolina

**Date/Time sample analyzed:** 7/31/2014 17:00

**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	10	CFU/100mL	SM 18 9222D

\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

06-Aug-14

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ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek  
**Sample Type:** Surface Water  
**Order comment:**  
**Order ID:** 123136

---

**Sample Number:** 219470  
**Sample Location:** Site #6, grab  
**Sample Comment:** FC rec'd at 8.0 deg C  
**Date/Time sample collected:** 7/31/2014 11:18 **Collected By:** Allen Winchell  
**Date/Time sample received:** 7/31/2014 15:00 **Received by:** Karolina  
**Date/Time sample analyzed:** 7/31/2014 17:00 **Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	40	CFU/100mL	SM 18 9222D

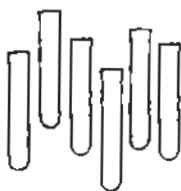
\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

06-Aug-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-8538

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office

Attn: Alan Adin

420 Broadway

Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek

**Sample Type:** Surface Water

**Order comment:**

**Order ID:** 123136

---

**Sample Number:** 219471

**Sample Location:** Site #7, grab

**Sample Comment:** FC rec'd at 9.3 deg C

**Date/Time sample collected:** 7/31/2014 12:10

**Collected By:** Allen Winchell

**Date/Time sample received:** 7/31/2014 15:00

**Received by:** Karolina

**Date/Time sample analyzed:** 7/31/2014 17:00

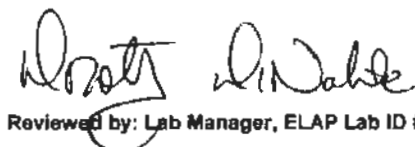
**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	20	CFU/100mL	SM 18 9222D

\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

  
Reviewed by: Lab Manager, ELAP Lab ID #10924

06-Aug-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

Attn: Alan Adin

420 Broadway

Kingston

NY 12401

PO #

Client Project Name: Rondout Creek

Sample Type: Surface Water

Order comment:

Order ID: 123136

Sample Number: 219472

Sample Location: Duplicate Site #1, grab

Sample Comment: FC rec'd at 9.3 deg C

Date/Time sample collected: 7/31/2014 10:52

Collected By: Allen Winchell

Date/Time sample received: 7/31/2014 15:00

Received by: Karolina

Date/Time sample analyzed: 7/31/2014 17:00

Tech: SS

Parameter	Test Result*	Units	Test Method
Fecal Coliform	10**	CFU/100mL	SM 18 9222D

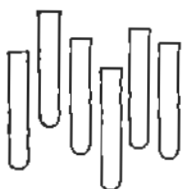
\*Bacteriological test results are expressed as Colony Forming Units.

Results Comment: \*\*Sample was analyzed 62 mins outside of 6 hr. holding time.

Reviewed by: Lab Manager, ELAP Lab ID #10924

06-Aug-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 228-8536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office

Attn: Alan Adin

420 Broadway

Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek

**Sample Type:** Water

**Order comment:**

**Order ID:** 123136

---

**Sample Number:** 219935

**Sample Location:** Blank-QC

**Sample Comment:** 100 mL of buffered rinse water used

**Date/Time sample collected:** 7/31/2014 17:00

**Collected By:**

**Date/Time sample received:** 7/31/2014 17:00

**Received by:** Karolina

**Date/Time sample analyzed:** 7/31/2014 17:00

**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	< 1	CFU/100mL	SM 18 9222D

\*Bacteriological test results are expressed as Colony Forming Units.

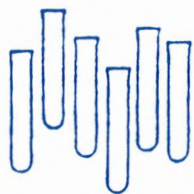
**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

06-Aug-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office

Attn: Alan Adin

420 Broadway

Kingston

NY 12401

PO #

**Sample Type:** Surface Water

**Client Project Name:** Rondout Creek

**Order comment:**

**Order ID:** 123136

**Sample Number:** 219465

**Sample Location:** Site #1, grab

**Date/Time sample collected:** 7/31/2014 10:52

**Sample Collected By:** Allen Winchell

**Date/Time samples received:** 7/31/2014 15:00

**Sample Received by:** Karolina

**Sample Comment:** FC rec'd at 11.1 deg C

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Solids, Settleable	< 0.1	mL/L	SM20 2540F	8/1/2014	10:50	SW
Total Suspended Solids	2	mg/L	SM20 2540 D	8/5/2014		SW

**Order ID:** 123136

**Sample Number:** 219466

**Sample Location:** Site #2, grab

**Date/Time sample collected:** 7/31/2014 11:04

**Sample Collected By:** Allen Winchell

**Date/Time samples received:** 7/31/2014 15:00

**Sample Received by:** Karolina

**Sample Comment:** FC rec'd at 8.1 deg C

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Solids, Settleable	< 0.1	mL/L	SM20 2540F	8/1/2014	10:50	SW
Total Suspended Solids	2	mg/L	SM20 2540 D	8/5/2014		SW

**Order ID:** 123136

**Sample Number:** 219467

**Sample Location:** Site #3, grab

**Date/Time sample collected:** 7/31/2014 11:11

**Sample Collected By:** Allen Winchell

**Date/Time samples received:** 7/31/2014 15:00

**Sample Received by:** Karolina

**Sample Comment:** FC rec'd at 8.3 deg C

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Solids, Settleable	< 0.1	mL/L	SM20 2540F	8/1/2014	10:50	SW
Total Suspended Solids	1	mg/L	SM20 2540 D	8/5/2014		SW

**Order ID:** 123136

**Sample Number:** 219468

**Sample Location:** Site #4, grab

**Date/Time sample collected:** 7/31/2014 11:25

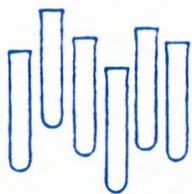
**Sample Collected By:** Allen Winchell

**Date/Time samples received:** 7/31/2014 15:00

**Sample Received by:** Karolina

**Sample Comment:** FC rec'd at 7.7 deg C

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Solids, Settleable	< 0.1	mL/L	SM20 2540F	8/1/2014	10:50	SW
Total Suspended Solids	2	mg/L	SM20 2540 D	8/5/2014		SW



# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

**Order ID:** 123136 **Sample Number:** 219469

**Sample Location:** Site #5, grab

**Date/Time sample collected:** 7/31/2014 11:32

**Sample Collected By:** Allen Winchell

**Date/Time samples received:** 7/31/2014 15:00

**Sample Received by:** Karolina

**Sample Comment:** FC rec'd at 7.8 deg C

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Solids, Settleable	< 0.1	mL/L	SM20 2540F	8/1/2014	10:50	SW
Total Suspended Solids	2	mg/L	SM20 2540 D	8/5/2014		SW

**Order ID:** 123136 **Sample Number:** 219470

**Sample Location:** Site #6, grab

**Date/Time sample collected:** 7/31/2014 11:18

**Sample Collected By:** Allen Winchell

**Date/Time samples received:** 7/31/2014 15:00

**Sample Received by:** Karolina

**Sample Comment:** FC rec'd at 8.0 deg C

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Solids, Settleable	< 0.1	mL/L	SM20 2540F	8/1/2014	10:50	SW
Total Suspended Solids	2	mg/L	SM20 2540 D	8/5/2014		SW

**Order ID:** 123136 **Sample Number:** 219471

**Sample Location:** Site #7, grab

**Date/Time sample collected:** 7/31/2014 12:10

**Sample Collected By:** Allen Winchell

**Date/Time samples received:** 7/31/2014 15:00

**Sample Received by:** Karolina

**Sample Comment:** FC rec'd at 9.3 deg C

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Solids, Settleable	< 0.1	mL/L	SM20 2540F	8/1/2014	10:50	SW
Total Suspended Solids	< 1	mg/L	SM20 2540 D	8/5/2014		SW

**Order ID:** 123136 **Sample Number:** 219472

**Sample Location:** Duplicate Site #1, grab

**Date/Time sample collected:** 7/31/2014 10:52

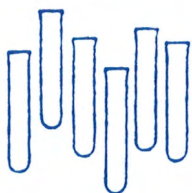
**Sample Collected By:** Allen Winchell

**Date/Time samples received:** 7/31/2014 15:00

**Sample Received by:** Karolina

**Sample Comment:** FC rec'd at 9.3 deg C

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Solids, Settleable	< 0.1	mL/L	SM20 2540F	8/1/2014	10:50	SW
Total Suspended Solids	2	mg/L	SM20 2540 D	8/5/2014		SW



# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

Attn: Alan Adin

420 Broadway

Kingston

NY 12401

PO #

Results Comment:

Reviewed by: Laboratory Manager, ELAP Lab ID #10924

12-Aug-14

Key: < = less than; A=Analysis performed over holding time; C=degrees Celsius; B=BOD blank depletion was greater than 0.2 mg/L; D=Elevated reporting limit; Est=Estimated Value; H=Sample received over analysis holding time; J=Result estimated below quantitation limit; MCL=New York State Maximum Contaminant Level; MDL=Method Detection Limit; mg/kg=milligrams per kilogram dry weight; mg/L=milligrams per Liter; mL/L=milliliters per Liter; ND=Not Detected; NTU=Nephelometric Turbidity Units; PtCo=Platinum Cobalt Units; Q=Not all QC data met acceptance criteria; SI = Saturation Index; SU=Standard pH Units; TON=Threshold Odor Number at 44.5 degrees C; ug/L-micrograms per Liter; umho/cm=micromhos per centimeter; V=Value above quantitation range; \*ELAP/NELAC does not offer certification for this analyte; \*\*ELAP ID is listed for sub-contract laboratory

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Total number of pages in this report, including chain of custody, is

3

SMITH LABORATORY  
4 Scenic Drive  
Hyde Park, NY 12538-1313  
Phone: 845-229-6536  
Fax: 845-229-6538

## CHAIN OF CUSTODY

Turnaround Time: Standard ☒  
**RUSH** ☐ (Rush surcharge applies)  
\*\* Date report requested: \_\_\_\_\_

Copy results to  
Local Health Dept.  
Yes ☐ No ☒

Login Review: ☒  
Amt Due: \_\_\_\_\_  
Amt Paid: \_\_\_\_\_  
Pmt Method: \_\_\_\_\_  
Receipt No: \_\_\_\_\_

Client Name: CITY OF KINGSTON

Client Phone No: 845-334-3968

Project/Facility Name: RONDOUT CREEK

Mailing Address: 420 BROADWAY

Client Email: aadin@kingston-ny.gov

Location: \_\_\_\_\_

KINGSTON, NY 12401

Copy Report To: RALPH SWENSON

PWS Fed ID No: NY- \_\_\_\_\_

### LAB USE ONLY

### CLIENT: COMPLETE THE SAMPLE INFORMATION IN THE SPACE PROVIDED BELOW

### LAB USE ONLY

Order ID No: Sample No:	Sample Identification & Sample Point	Matrix	(Check One)			Treatment Type & Residual	Date/Time Sampled	Analysis Requested	Container & Preservative	Iced Y/N	Sample Temp, Deg C	Pres. at Lab Y/N
			Grab	Comp # hrs	First Draw							
123136												
219465AB	SITE #1	SW	X				7/31/14 10:50A	SS TSS	1-1LPLAS 1-1/2 L PLAS	N	9.9/10.3	N
219466AB	SITE #2	SW	X				7/31/14 11:04A	SS TSS	1-1LPLAS 1-1/2 L PLAS		7.7/8.3	
219467AB	SITE #3	SW	X				7/31/14 11:11A	SS TSS	1-1LPLAS 1-1/2 L PLAS		10.4/7.9	
219468AB	SITE #4	SW	X				7/31/14 11:25A	SS TSS	1-1LPLAS 1-1/2 L PLAS		14.2/13.7	
219469AB	SITE #5	SW	X				7/31/14 11:32A	SS TSS	1-1LPLAS 1-1/2 L PLAS		8.8/14.0	
219470AB	SITE #6	SW	X				7/31/14 11:18A	SS TSS	1-1LPLAS 1-1/2 L PLAS		14.9/14.1	
219471AB	SITE #7	SW	X				7/31/14 12:10P	SS TSS	1-1LPLAS 1-1/2 L PLAS		12.9/12.2	
219472AB	DUPLICATE	SW	X				7/31/14 10:52A	SS TSS	1-1LPLAS 1-1/2 L PLAS		12.9/14.3	

Sampled By: (Name) Shawn Winkler (Title) SR OPERATOR I hereby affirm that the information above is true and complete to the best of my knowledge. I also affirm that I am responsible for payment, unless other payment arrangements are approved in advance by Smith Laboratory.

Sample Relinquished By: Shawn Winkler

Received By: George B. Caschieri

Date: 7/31/14 Time: 2:00P

Sample Relinquished By: George B. Caschieri

Received at Lab By: Shawn Winkler

Date: 7/31/14 Time: 3pm

Sample(s) received met the following requirements

Thermal Preservation: NA Yes ☒ No ☐

Chemical Preservation: NA Yes ☒ No ☐

Correct Bottle Type Yes ☒ No ☐

Other \_\_\_\_\_

Comments:



Initials:

Date: 8-5-14

Page \_\_\_ of \_\_\_

Sampling Team:

ALLEN W, TIM P, RALPH S

Weather:

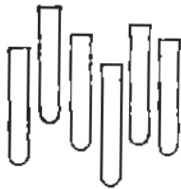
CLEAR 75°F - 80°F

Temperature:

Direction of Flow:

Sampling Location	Time	Field Parameter	Physical Observations	Comments
SITE #1: MID-ROADOUT CREEK APPROX. 250 YDS UPSTREAM OF WILBUR AVE. OUTFALL	LATITUDE: 41.900 LONGITUDE: 74.004 10:06 A	DO 9.1 temperature 26.2	Grease NONE Floatables NONE Odors NONE	TIDE: OUTGOING APPROX. 15 YDS WESTERLY OF FEEVEY DRY DOCK AT PROPERTY BOUNDARY BETWEEN FEEVEY AND RECYCLING BUSINESS
SITE #2: MID-ROADOUT CREEK - UPSTREAM OF BLOCK PARK	LAT: 41.912 LONG: 73.992 10:12 A	DO 9.6 temperature 25.5	Grease NONE Floatables NONE Odors NONE	TIDE: OUTGOING 50 YDS SOUTHERLY OF ISLAND DOCK CAUSEWAY CURVE
SITE #3: MID-ROADOUT CREEK APPROX. 150 YDS UPSTREAM OF OLD BRIDGE	LAT: 41.914 LONG: 73.981 10:23 A	DO 9.6 temperature 25.5	Grease NONE Floatables NONE Odors NONE	TIDE: OUTGOING 25 YDS SOUTHER BOILER PROTRUDING ISLAND DOCK BULKHEAD
SITE #6: MID-ROADOUT CREEK UNDER NEW BRIDGE	LAT: 41.915 LONG: 73.980 10:26 A	DO 9.3 temperature 24.3	Grease NONE Floatables NONE Odors NONE	TIDE: OUTGOING 50 YDS SOUTHER MAINTENANCE SHEET
SITE #4: MID-ROADOUT CREEK APPROX. 200 YDS DOWNSTREAM OF NEW BRIDGE	LAT: 41.919 LONG: 73.978 10:29 A	DO 8.9 temperature 26.1	Grease NONE Floatables NONE Odors NONE	TIDE: OUTGOING 50 YDS SOUTHER RESTAURANT CORNER
SITE #5: MID-ROADOUT CREEK UPSTREAM OF BLOCK PARK	LAT: 41.921 LONG: 73.969 10:33 A	DO 7.9 temperature 25.7	Grease NONE Floatables NONE Odors NONE	TIDE: OUTGOING 50 YDS SOUTHERLY OF GAS LINE CROSSING WARNING SIGN
SITE #7: MID-ROADOUT CREEK APPROX. 3/4 MILE UPSTREAM OF EDDYVILLE DAM AT NYSDEC BOAT LAUNCH	LAT: 41.985 LONG: 73.015 10:44 A	DO 7.4 temperature 25.7	Grease NONE Floatables NONE Odors NONE	FLOW: ALWAYS EASTERLY (DOWNSTREAM) - LOCATION NOT TIDAL. STRAIGHT OUT FROM WESTERLY END BOAT LAUNCH
DUPPLICATE SITE #2	LAT: LONG:	DO temperature	Grease Floatables Odors	SITE #2

High Tides 8:22 A & 9:03 P



# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek  
**Sample Type:** Surface Water  
**Order comment:**  
**Order ID:** 123241

---

**Sample Number:** 219695  
**Sample Location:** Site #1, grab  
**Sample Comment:** FC rec'd at 14.1 deg C  
**Date/Time sample collected:** 8/5/2014 10:06  
**Date/Time sample received:** 8/5/2014 13:40  
**Date/Time sample analyzed:** 8/5/2014 15:15

---

**Collected By:** Ralph S.  
**Received by:** Karolina  
**Tech:** DMD

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	10	CFU/100mL	SM 18 9222D

---

\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

11-Aug-14

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4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek  
**Sample Type:** Surface Water  
**Order comment:**  
**Order ID:** 123241

---

**Sample Number:** 218696  
**Sample Location:** Site #2, grab  
**Sample Comment:** FC rec'd at 12.8 deg C  
**Date/Time sample collected:** 8/5/2014 10:17  
**Date/Time sample received:** 8/5/2014 13:40  
**Date/Time sample analyzed:** 8/5/2014 15:15

**Collected By:** Ralph S.  
**Received by:** Karolina  
**Tech:** DMD

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	30	CFU/100mL	SM 18 9222D

\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

  
Reviewed by: Lab Manager, ELAP Lab ID #10924

11-Aug-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-8536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek  
**Sample Type:** Surface Water  
**Order comment:**  
**Order ID:** 123241

---

**Sample Number:** 219697  
**Sample Location:** Site #3, grab  
**Sample Comment:** FC rec'd at 12.0 deg C  
**Date/Time sample collected:** 8/5/2014 10:23  
**Date/Time sample received:** 8/5/2014 13:40  
**Date/Time sample analyzed:** 8/5/2014 15:15  
**Collected By:** Ralph S.  
**Received by:** Karolina  
**Tech:** DMD

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	10	CFU/100mL	SM 18 9222D

\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

11-Aug-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-8538

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek  
**Sample Type:** Surface Water  
**Order comment:**  
**Order ID:** 123241

---

**Sample Number:** 219698  
**Sample Location:** Site #4, grab  
**Sample Comment:** FC rec'd at 12.9 deg C  
**Date/Time sample collected:** 8/5/2014 10:29  
**Date/Time sample received:** 8/5/2014 13:40  
**Date/Time sample analyzed:** 8/5/2014 15:15

**Collected By:** Ralph S.  
**Received by:** Karolina  
**Tech:** DMD

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	30	CFU/100mL	SM 18 9222D

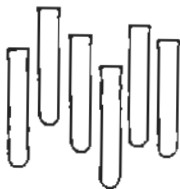
\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

11-Aug-14

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ENVIRONMENTAL TESTING  
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## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
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420 Broadway  
Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek  
**Sample Type:** Surface Water  
**Order comment:**  
**Order ID:** 123241

---

**Sample Number:** 219699  
**Sample Location:** Site #5, grab  
**Sample Comment:** FC rec'd at 11.8 deg C  
**Date/Time sample collected:** 8/5/2014 10:33  
**Date/Time sample received:** 8/5/2014 13:40  
**Date/Time sample analyzed:** 8/5/2014 15:15

**Collected By:** Ralph S.  
**Received by:** Karolina  
**Tech:** DMD

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	50	CFU/100mL	SM 18 9222D

---

\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

11-Aug-14

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4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 228-8538

## CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

Client Project Name: Rondout Creek  
Sample Type: Surface Water  
Order comment:  
Order ID: 123241

---

Sample Number: 219700  
Sample Location: Site #6, grab  
Sample Comment: FC rec'd at 11.1 deg C  
Date/Time sample collected: 8/5/2014 10:26  
Date/Time sample received: 8/5/2014 13:40  
Date/Time sample analyzed: 8/5/2014 15:15

Collected By: Ralph S.  
Received by: Karolina  
Tech: DMD

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	50	CFU/100mL	SM 18 9222D

---

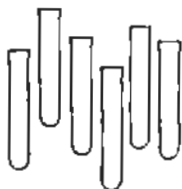
\*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

11-Aug-14

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ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-8536

## CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

Client Project Name: Rondout Creek  
Sample Type: Surface Water  
Order comment:  
Order ID: 123241

---

Sample Number: 219701  
Sample Location: Site #7, grab  
Sample Comment: FC rec'd at 11.2 deg C  
Date/Time sample collected: 8/5/2014 11:00 Collected By: Ralph S.  
Date/Time sample received: 8/5/2014 13:40 Received by: Karolina  
Date/Time sample analyzed: 8/5/2014 15:15 Tech: DMD

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	10	CFU/100mL	SM 18 9222D

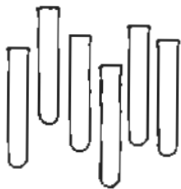
\*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

11-Aug-14

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ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek  
**Sample Type:** Surface Water  
**Order comment:**  
**Order ID:** 123241

---

**Sample Number:** 219702  
**Sample Location:** Duplicate Site #2, grab  
**Sample Comment:** FC rec'd at 12.5 deg C  
**Date/Time sample collected:** 8/5/2014 10:12  
**Date/Time sample received:** 8/5/2014 13:40  
**Date/Time sample analyzed:** 8/5/2014 15:15

**Collected By:** Ralph S.  
**Received by:** Karolina  
**Tech:** DMD

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	20	CFU/100mL	SM 18.9222D

---

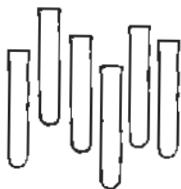
\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

11-Aug-14

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ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 228-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek  
**Sample Type:** Water  
**Order comment:**  
**Order ID:** 123241

---

**Sample Number:** 219703  
**Sample Location:** Blank-QC  
**Sample Comment:** 100 mL buffered rinse water used.  
**Date/Time sample collected:** 8/5/2014 15:15  
**Date/Time sample received:** 8/5/2014 15:15  
**Date/Time sample analyzed:** 8/5/2014 15:15

**Collected By:** Ralph S.  
**Received by:** Karolina  
**Tech:** DMD

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	< 1	CFU/100mL	SM 18 9222D

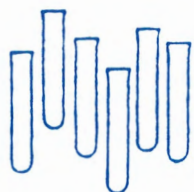
\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

11-Aug-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office

Attn: Alan Adin

420 Broadway

Kingston

NY 12401

PO #

**Sample Type:** Surface Water

**Client Project Name:** Rondout Creek

**Order comment:**

**Order ID:** 123241

**Sample Number:** 219695

**Sample Location:** Site #1, grab

**Date/Time sample collected:** 8/5/2014 10:06

**Sample Collected By:** AW

**Date/Time samples received:** 8/5/2014 13:40

**Sample Received by:** Karolina

**Sample Comment:** FC rec'd at 14.1 deg C

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Total Suspended Solids	3	mg/L	SM20 2540 D	8/8/2014		SW
Solids, Settleable	< 0.1	mL/L	SM20 2540F	8/5/2014	16:00	LAE

**Order ID:** 123241

**Sample Number:** 219696

**Sample Location:** Site #2, grab

**Date/Time sample collected:** 8/5/2014 10:17

**Sample Collected By:** AW

**Date/Time samples received:** 8/5/2014 13:40

**Sample Received by:** Karolina

**Sample Comment:** FC rec'd at 12.8 deg C

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Total Suspended Solids	4	mg/L	SM20 2540 D	8/8/2014		SW
Solids, Settleable	< 0.1	mL/L	SM20 2540F	8/5/2014	16:00	LAE

**Order ID:** 123241

**Sample Number:** 219697

**Sample Location:** Site #3, grab

**Date/Time sample collected:** 8/5/2014 10:23

**Sample Collected By:** AW

**Date/Time samples received:** 8/5/2014 13:40

**Sample Received by:** Karolina

**Sample Comment:** FC rec'd at 12.0 deg C

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Total Suspended Solids	4	mg/L	SM20 2540 D	8/8/2014		SW
Solids, Settleable	< 0.1	mL/L	SM20 2540F	8/5/2014	16:00	LAE

**Order ID:** 123241

**Sample Number:** 219698

**Sample Location:** Site #4, grab

**Date/Time sample collected:** 8/5/2014 10:29

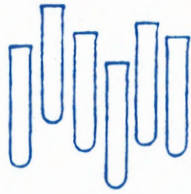
**Sample Collected By:** AW

**Date/Time samples received:** 8/5/2014 13:40

**Sample Received by:** Karolina

**Sample Comment:** FC rec'd at 12.9 deg C

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Total Suspended Solids	3	mg/L	SM20 2540 D	8/8/2014		SW
Solids, Settleable	< 0.1	mL/L	SM20 2540F	8/5/2014	16:00	LAE



# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

**Order ID:** 123241      **Sample Number:** 219699  
**Sample Location:** Site #5, grab  
**Date/Time sample collected:** 8/5/2014 10:33      **Sample Collected By:** AW  
**Date/Time samples received:** 8/5/2014 13:40      **Sample Received by:** Karolina  
**Sample Comment:** FC rec'd at 11.8 deg C

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Total Suspended Solids	4	mg/L	SM20 2540 D	8/8/2014		SW
Solids, Settleable	< 0.1	mL/L	SM20 2540F	8/5/2014	16:00	LAE

---

**Order ID:** 123241      **Sample Number:** 219700  
**Sample Location:** Site #6, grab  
**Date/Time sample collected:** 8/5/2014 10:26      **Sample Collected By:** AW  
**Date/Time samples received:** 8/5/2014 13:40      **Sample Received by:** Karolina  
**Sample Comment:** FC rec'd at 11.1 deg C

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Total Suspended Solids	4	mg/L	SM20 2540 D	8/8/2014		SW
Solids, Settleable	< 0.1	mL/L	SM20 2540F	8/5/2014	16:00	LAE

---

**Order ID:** 123241      **Sample Number:** 219701  
**Sample Location:** Site #7, grab  
**Date/Time sample collected:** 8/5/2014 11:00      **Sample Collected By:** AW  
**Date/Time samples received:** 8/5/2014 13:40      **Sample Received by:** Karolina  
**Sample Comment:** FC rec'd at 11.2 deg C

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Total Suspended Solids	2	mg/L	SM20 2540 D	8/8/2014		SW
Solids, Settleable	< 0.1	mL/L	SM20 2540F	8/5/2014	16:00	LAE

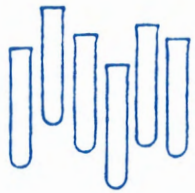
---

**Order ID:** 123241      **Sample Number:** 219702  
**Sample Location:** Duplicate Site #2, grab  
**Date/Time sample collected:** 8/5/2014 10:12      **Sample Collected By:** AW  
**Date/Time samples received:** 8/5/2014 13:40      **Sample Received by:** Karolina  
**Sample Comment:** FC rec'd at 12.5 deg C

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Total Suspended Solids	2	mg/L	SM20 2540 D	8/8/2014		SW
Solids, Settleable	< 0.1	mL/L	SM20 2540F	8/5/2014	16:00	LAE

---





# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

### Results Comment:

Reviewed by: Laboratory Manager, ELAP Lab ID #10924

18-Aug-14

Key: < = less than; A=Analysis performed over holding time; C=degrees Celsius; B=BOD blank depletion was greater than 0.2 mg/L; D=Elevated reporting limit; Est=Estimated Value; H=Sample received over analysis holding time; J=Result estimated below quantitation limit; MCL=New York State Maximum Contaminant Level; MDL=Method Detection Limit; mg/kg=milligrams per kilogram dry weight; mg/L=milligrams per Liter; mL/L=milliliters per Liter; ND=Not Detected; NTU=Nephelometric Turbidity Units; PtCo=Platinum Cobalt Units; Q=Not all QC data met acceptance criteria; SI = Saturation Index; SU=Standard pH Units; TON=Threshold Odor Number at 44.5 degrees C; ug/L-micrograms per Liter; umho/cm=micromhos per centimeter; V=Value above quantitation range; \*ELAP/NELAC does not offer certification for this analyte; \*\*ELAP ID is listed for sub-contract laboratory

*Smith Laboratory is approved as an Environmental Testing Laboratory in conformance with the National Environmental Laboratory Accreditation Conference (NELAC) Standards. This test report pertains only to the above items analyzed on this sample as received by the laboratory. Information supplied by the client is assumed to be correct.*

Total number of pages in this report, including chain of custody, is 3

## SMITH LABORATORY

4 Scenic Drive

Hyde Park, NY 12538-1313

Phone: 845-229-6536

Fax: 845-229-6538

## CHAIN OF CUSTODY

Turnaround Time: Standard ☒RUSH ☐ (Rush surcharge applies)

\*\* Date report requested: \_\_\_\_\_

Copy results to

Local Health Dept.

Yes ☐ No ☒Login Review: 8

Amt Due: \_\_\_\_\_

Amt Paid: \_\_\_\_\_

Pmt Method: \_\_\_\_\_

Receipt No: \_\_\_\_\_

Client Name: CITY OF KINGSTONClient Phone No: 845-334-3968Project/Facility Name: RONDOUT CREEKMailing Address: 420 BROADWAYClient Email: aadin@kingston-ny.gov

Location: \_\_\_\_\_

KINGSTON, NY 12401Copy Report To: RALPH SWENSON

PWS Fed ID No: NY- \_\_\_\_\_

## LAB USE ONLY

## CLIENT: COMPLETE THE SAMPLE INFORMATION IN THE SPACE PROVIDED BELOW

## LAB USE ONLY

Order ID No: Sample No:	Sample Identification & Sample Point	Matrix	(Check One)			Treatment Type & Residual	Date/Time Sampled	Analysis Requested	Container & Preservative	Iced Y/N	Sample Temp, Deg C	Pres. at Lab Y/N
			Grab	Comp # hrs	First Draw							
123241												
219695A	SITE #1	SW	X				8/5/14 10:06A	SS TSS	1-1LPLAS 1-1/2 L PLAS		13.3	
219696	SITE #2	SW	X				8/5/14 10:12A	SS TSS	1-1LPLAS 1-1/2 L PLAS		11.5	
219697	SITE #3	SW	X				8/5/14 10:23A	SS TSS	1-1LPLAS 1-1/2 L PLAS		13.7	
219698	SITE #4	SW	X				8/5/14 10:29A	SS TSS	1-1LPLAS 1-1/2 L PLAS		13.8	
219699	SITE #5	SW	X				8/5/14 10:33A	SS TSS	1-1LPLAS 1-1/2 L PLAS		17.9	
219670	SITE #6	SW	X				8/5/14 10:26A	SS TSS	1-1LPLAS 1-1/2 L PLAS		19.5	
219671	SITE #7	SW	X				8/5/14 11:00A	SS TSS	1-1LPLAS 1-1/2 L PLAS		13.9	
219672	DUPLICATE	SW	X				8/5/14 10:12A	SS TSS	1-1LPLAS 1-1/2 L PLAS		17.9	
219673												

Sampled By: (Name) Allen Wucher (Title) SR OPERATOR I hereby affirm that the information above is true and complete to the best of my knowledge. I also affirm that I am responsible for payment, unless other payment arrangements are approved in advance by Smith Laboratory.

Sample Relinquished By: Allen WucherReceived By: J. P. ...Date: 8/5/14 Time: \_\_\_\_\_

Sample Relinquished By: \_\_\_\_\_

Received at Lab By: WucherDate: 8/5/14 Time: 140pm

Sample(s) received met the following requirements

Thermal Preservation: NA Yes No YesChemical Preservation: NA Yes No YesCorrect Bottle Type Yes No Yes

Other \_\_\_\_\_

Comments: \_\_\_\_\_

Attach nt 1 - Sampling Event Summary Sheet

WET WEATHER

SAMPLING EVENT # 17

Initials:

ATA

Date: 8-12-14

Page \_\_\_ of \_\_\_

Sampling Team:

A. Adin / A. Marshall / Tim Polenzinski

Weather:

LIGHT RAIN STARTS ~ 9:20A

Temperature:

ENDS ~ 10:15 - NO ACCUMULATION

Direction of Flow:

← OUT EASTERLY

LOW TIDE - 9:43A

Sampling Location	Time	Field Parameter	Physical Observations	Comments
SITE #1: MID-ROADOUT CREEK APPROX. 250 YDS UPSTREAM OF WILBUR RVE. OUTFALL	LATITUDE: 41.906 LONGITUDE: 73.004 9:38A	DO 9.1 mg/L temperature 25.2°C	Grease NONE Floatables NONE Odors NONE	TIDE: OUT EASTERLY APPROX. 15 YDS WESTERLY OF FEEVEY DRY DOCK AT PROPERTY BOUNDARY BETWEEN FEEVEY AND RECYCLING BUSINESS
SITE #2: MID-ROADOUT CREEK - UPSTREAM OF BLOCK PARK	LAT: 41.91 LONG: 73.94 9:47A	DO 9.5 mg/L temperature 24.9°C	Grease NONE Floatables NONE Odors NONE	TIDE: OUT EASTERLY 50 YDS SOUTHERLY OF ISLAND DOCK CAUSEWAY CULVERTS
SITE #3: MID-ROADOUT CREEK APPROX. 150 YDS UPSTREAM OF OLD BRIDGE	LAT: 41.91 LONG: 73.98 9:52A	DO 9.7 mg/L temperature 25.1°C	Grease NONE Floatables NONE Odors NONE	TIDE: OUT EASTERLY 25 YDS SOUTHERLY OF OLD STEEL BOILER PROTRUDING FROM WATER NEAR ISLAND DOCK BULKHEAD
SITE #6: MID-ROADOUT CREEK UNDER NEW BRIDGE	LAT: 41.92 LONG: 73.98 9:56A	DO 10.1 mg/L temperature 25.2°C	Grease NONE Floatables NONE Odors NONE	TIDE: OUT EASTERLY 50 YDS SOUTHERLY OF CLEARWATER MAINTENANCE SHED, DOUBLE SLIDE DOORS
SITE #4: MID-ROADOUT CREEK APPROX. 200 YDS DOWNSTREAM OF NEW BRIDGE	LAT: 41.92 LONG: 73.98 9:58A	DO 10.1 mg/L temperature 25.2°C	Grease NONE Floatables NONE Odors NONE	TIDE: OUT EASTERLY 50 YDS SOUTHERLY RESTAURANT COVERED PATIO
SITE #5: MID-ROADOUT CREEK UPSTREAM OF BLOCK PARK	LAT: 41.92 LONG: 73.97 10:04A	DO 8.9 mg/L temperature 25.1°C	Grease NONE Floatables NONE Odors NONE	TIDE: OUT EASTERLY 50 YDS SOUTHERLY CROSSING WARNING
SITE #7: MID-ROADOUT CREEK APPROX. 3/4 MILE UPSTREAM OF EDDYVILLE DAM AT NYSDEC BOAT LAUNCH	LAT: 41.99 LONG: 73.02 10:35A	DO 6.2 temperature 24.7	Grease NONE Floatables YES Odors NONE	FLOW: ALWAYS EASTERLY (DOWNSTREAM) - LOCATION NOT TIDAL. STRAIGHT FROM WESTERLY END BOAT LAUNCH
DUPLICATE	LAT: LONG: SITE #3	DO temperature	Grease NONE Floatables YES Odors NONE	MINIMAL - VEGETATIVE MATTER - FLOATS.



# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 228-8538

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek  
**Sample Type:** Surface Water  
**Order comment:**  
**Order ID:** 123464

---

**Sample Number:** 220265  
**Sample Location:** Site #1, grab  
**Sample Comment:** FC rec'd at 11.9 deg C.  
**Date/Time sample collected:** 8/12/2014 9:38  
**Date/Time sample received:** 8/12/2014 12:15  
**Date/Time sample analyzed:** 8/12/2014 13:25

**Collected By:** AA  
**Received by:** Amy Jo  
**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	60	CFU/100mL	SM 18 9222D

\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10824

14-Aug-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office

Attn: Alan Adin

420 Broadway

Kingston

NY 12401

PO #

**Client Project Name:** Rondout Creek

**Sample Type:** Surface Water

**Order comment:**

**Order ID:** 123464

**Sample Number:** 220266

**Sample Location:** Site #2, grab

**Sample Comment:** FC rec'd at 10.8 deg C.

**Date/Time sample collected:** 8/12/2014 9:47

**Collected By:** AA

**Date/Time sample received:** 8/12/2014 12:15

**Received by:** Amy Jo

**Date/Time sample analyzed:** 8/12/2014 13:25

**Tech:** SS

Parameter	Test Result*	Units	Test Method
Fecal Coliform	10	CFU/100mL	SM 18 9222D

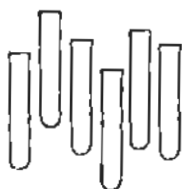
\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

14-Aug-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
**Attn:** Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek  
**Sample Type:** Surface Water  
**Order comment:**  
**Order ID:** 123464

---

**Sample Number:** 220267  
**Sample Location:** Site #3, grab  
**Sample Comment:** FC rec'd at 11.5 deg C.  
**Date/Time sample collected:** 8/12/2014 9:52  
**Date/Time sample received:** 8/12/2014 12:15  
**Date/Time sample analyzed:** 8/12/2014 13:25

**Collected By:** AA  
**Received by:** Amy Jo  
**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	30	CFU/100mL	SM 18 9222D

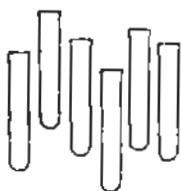
\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10824

14-Aug-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office

Attn: Alan Adin

420 Broadway

Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek

**Sample Type:** Surface Water

**Order comment:**

**Order ID:** 123464

---

**Sample Number:** 220268

**Sample Location:** Site #4, grab

**Sample Comment:** FC rec'd at 10.8 deg C.

**Date/Time sample collected:** 8/12/2014 9:58

**Collected By:** AA

**Date/Time sample received:** 8/12/2014 12:15

**Received by:** Amy Jo

**Date/Time sample analyzed:** 8/12/2014 13:25

**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	80	CFU/100mL	SM 18 9222D

\*Bacteriological test results are expressed as Colony Forming Units.

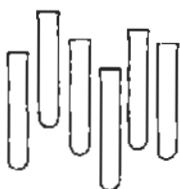
**Results Comment:**

  
Reviewed by: Lab Manager, ELAP Lab ID #10924

14-Aug-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6538

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek  
**Sample Type:** Surface Water  
**Order comment:**  
**Order ID:** 123464

---

**Sample Number:** 220269  
**Sample Location:** Site #5, grab  
**Sample Comment:** FC rec'd at 11.6 deg C.  
**Date/Time sample collected:** 8/12/2014 10:04  
**Date/Time sample received:** 8/12/2014 12:15  
**Date/Time sample analyzed:** 8/12/2014 13:25

**Collected By:** AA  
**Received by:** Amy Jo  
**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	30	CFU/100mL	SM 18 9222D

\*Bacteriological test results are expressed as Colony Forming Units.

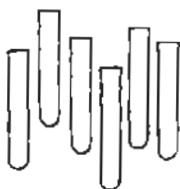
**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

14-Aug-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-8536

## CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

Client Project Name: Rondout Creek  
Sample Type: Surface Water  
Order comment:  
Order ID: 123464

---

Sample Number: 220270  
Sample Location: Site #6, grab  
Sample Comment: FC rec'd at 15.6 deg C.  
Date/Time sample collected: 8/12/2014 9:58  
Date/Time sample received: 8/12/2014 12:15  
Date/Time sample analyzed: 8/12/2014 13:25

Collected By: AA  
Received by: Amy Jo  
Tech: SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	30	CFU/100mL	SM 18 9222D

---

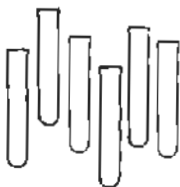
\*Bacteriological test results are expressed as Colony Forming Units

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

14-Aug-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 228-8538

## CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

Client Project Name: Rondout Creek  
Sample Type: Surface Water  
Order comment:  
Order ID: 123464

---

Sample Number: 220271  
Sample Location: Site #7, grab  
Sample Comment: FC rec'd at 14.8 deg C.  
Date/Time sample collected: 8/12/2014 10:35 Collected By: AA  
Date/Time sample received: 8/12/2014 12:15 Received by: Amy Jo  
Date/Time sample analyzed: 8/12/2014 13:25 Tech: SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	< 10	CFU/100mL	SM 18 9222D

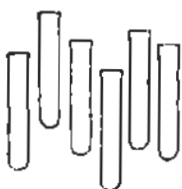
\*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

14-Aug-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office

Attn: Alan Adin

420 Broadway

Kingston

NY 12401

PO #

Client Project Name: Rondout Creek

Sample Type: Surface Water

Order comment:

Order ID: 123464

Sample Number: 220272

Sample Location: Duplicate, Site #3, grab

Sample Comment: FC rec'd at 16.8 deg C.

Date/Time sample collected: 8/12/2014 9:52

Collected By: AA

Date/Time sample received: 8/12/2014 12:15

Received by: Amy Jo

Date/Time sample analyzed: 8/12/2014 13:25

Tech: SS

Parameter	Test Result*	Units	Test Method
Fecal Coliform	50	CFU/100mL	SM 18 9222D

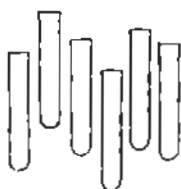
\*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

14-Aug-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-8536

## CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

Client Project Name: Rondout Creek  
Sample Type: Water  
Order comment:  
Order ID: 123464

---

Sample Number: 220273  
Sample Location: Blank-QC  
Sample Comment: 100 mL of buffered rinse water used  
Date/Time sample collected: 8/12/2014 13:25 Collected By:  
Date/Time sample received: 8/12/2014 13:25 Received by: Amy Jo  
Date/Time sample analyzed: 8/12/2014 13:25 Tech: SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	< 1	CFU/100mL	SM 18 9222D

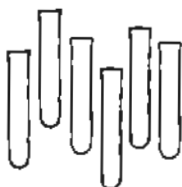
\*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

14-Aug-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-8536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office

Attn: Alan Adin

420 Broadway

Kingston

NY 12401

PO #

**Sample Type:** Surface Water

**Client Project Name:** Rondout Creek

**Order comment:**

**Order ID:** 123464

**Sample Number:** 220265

**Sample Location:** Site #1, grab

**Date/Time sample collected:** 8/12/2014 9:38

**Sample Collected By:** AA

**Date/Time samples received:** 8/12/2014 12:15

**Sample Received by:** Amy Jo

**Sample Comment:** FC rec'd at 11.9 deg C.

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Total Suspended Solids	4	mg/L	SM20 2540 D	8/14/2014		SW
Solids, Settleable	< 0.1	mL/L	SM20 2540F	8/12/2014	12:25	SW

**Order ID:** 123464

**Sample Number:** 220266

**Sample Location:** Site #2, grab

**Date/Time sample collected:** 8/12/2014 9:47

**Sample Collected By:** AA

**Date/Time samples received:** 8/12/2014 12:15

**Sample Received by:** Amy Jo

**Sample Comment:** FC rec'd at 10.8 deg C.

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Total Suspended Solids	3	mg/L	SM20 2540 D	8/14/2014		SW
Solids, Settleable	< 0.1	mL/L	SM20 2540F	8/12/2014	12:25	SW

**Order ID:** 123464

**Sample Number:** 220267

**Sample Location:** Site #3, grab

**Date/Time sample collected:** 8/12/2014 9:52

**Sample Collected By:** AA

**Date/Time samples received:** 8/12/2014 12:15

**Sample Received by:** Amy Jo

**Sample Comment:** FC rec'd at 11.5 deg C.

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Total Suspended Solids	5	mg/L	SM20 2540 D	8/14/2014		SW
Solids, Settleable	< 0.1	mL/L	SM20 2540F	8/12/2014	12:25	SW

**Order ID:** 123464

**Sample Number:** 220268

**Sample Location:** Site #4, grab

**Date/Time sample collected:** 8/12/2014 9:58

**Sample Collected By:** AA

**Date/Time samples received:** 8/12/2014 12:15

**Sample Received by:** Amy Jo

**Sample Comment:** FC rec'd at 10.8 deg C.

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Total Suspended Solids	3	mg/L	SM20 2540 D	8/14/2014		SW
Solids, Settleable	< 0.1	mL/L	SM20 2540F	8/12/2014	12:25	SW



# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office

Attn: Alan Adin

420 Broadway

Kingston

NY 12401

PO #

---

**Order ID:** 123464      **Sample Number:** 220269  
**Sample Location:** Site #5, grab  
**Date/Time sample collected:** 8/12/2014 10:04      **Sample Collected By:** AA  
**Date/Time samples received:** 8/12/2014 12:15      **Sample Received by:** Amy Jo  
**Sample Comment:** FC rec'd at 11.8 deg C.

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Total Suspended Solids	5	mg/L	SM20 2540 D	8/14/2014		SW
Solids, Settleable	< 0.1	mL/L	SM20 2540F	8/12/2014	12:25	SW

---

**Order ID:** 123464      **Sample Number:** 220270  
**Sample Location:** Site #6, grab  
**Date/Time sample collected:** 8/12/2014 9:56      **Sample Collected By:** AA  
**Date/Time samples received:** 8/12/2014 12:15      **Sample Received by:** Amy Jo  
**Sample Comment:** FC rec'd at 15.6 deg C.

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Total Suspended Solids	4	mg/L	SM20 2540 D	8/14/2014		SW
Solids, Settleable	< 0.1	mL/L	SM20 2540F	8/12/2014	12:25	SW

---

**Order ID:** 123464      **Sample Number:** 220271  
**Sample Location:** Site #7, grab  
**Date/Time sample collected:** 8/12/2014 10:35      **Sample Collected By:** AA  
**Date/Time samples received:** 8/12/2014 12:15      **Sample Received by:** Amy Jo  
**Sample Comment:** FC rec'd at 14.8 deg C.

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Total Suspended Solids	1	mg/L	SM20 2540 D	8/14/2014		SW
Solids, Settleable	< 0.1	mL/L	SM20 2540F	8/12/2014	12:25	SW

---

**Order ID:** 123464      **Sample Number:** 220272  
**Sample Location:** Duplicate, Site #3, grab  
**Date/Time sample collected:** 8/12/2014 9:52      **Sample Collected By:** AA  
**Date/Time samples received:** 8/12/2014 12:15      **Sample Received by:** Amy Jo  
**Sample Comment:** FC rec'd at 16.8 deg C.

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Total Suspended Solids	2	mg/L	SM20 2540 D	8/14/2014		SW
Solids, Settleable	< 0.1	mL/L	SM20 2540F	8/12/2014	12:25	SW

---



# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

Order ID: 123464 Sample Number: 220273

Sample Location: Blank-QC

Date/Time sample collected: 8/12/2014 13:25

Sample Collected By:

Date/Time samples received: 8/12/2014 13:25

Sample Received by: Amy Jo

Sample Comment: 100 mL of buffered rinse water used

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Total Suspended Solids	< 1	mg/L	SM20 2540 D	8/14/2014		SW
Solids, Settleable	< 0.1	mL/L	SM20 2540F	8/12/2014	12:25	SW

Results Comment:

Reviewed by: Laboratory Manager, ELAP Lab ID #10924

21-Aug-14

Key: < = less than; A=Analysis performed over holding time; C=degrees Celsius; B=BOD blank depletion was greater than 0.2 mg/L; D=Elevated reporting limit; Est=Estimated Value; H=Sample received over analysis holding time; J=Result estimated below quantitation limit; MCL=New York State Maximum Contaminant Level; MDL=Method Detection Limit; mg/kg=milligrams per kilogram dry weight, mg/L=milligrams per Liter; mL/L=milliliters per Liter; ND=Not Detected; NTU=Nephelometric Turbidity Units; PtCo=Platinum Cobalt Units; Q=Not all QC data met acceptance criteria; SI = Saturation Index; SU=Standard pH Units; TON=Threshold Odor Number at 44.5 degrees C; ug/L-micrograms per Liter; umho/cm=micromhos per centimeter; V=Value above quantitation range; \*\*ELAP/NELAC does not offer certification for this analyte; \*\*ELAP ID is listed for sub-contract laboratory

*Smith Laboratory is approved as an Environmental Testing Laboratory in conformance with the National Environmental Laboratory Accreditation Conference (NELAC) Standards. This test report pertains only to the above items analyzed on this sample as received by the laboratory. Information supplied by the client is assumed to be correct.*

Total number of pages in this report, including chain of custody, is

4

<b>SMITH LABORATORY</b> 4 Scenic Drive Hyde Park, NY 12538-1313 Phone: 845-229-6536 Fax: 845-229-6538		<b>CHAIN OF CUSTODY</b>		Login Review:	
				Amt Due:	
				Amt Paid:	
				Pmt Method :	
				Receipt No:	
Turnaround Time: Standard <input checked="" type="checkbox"/> RUSH <input type="checkbox"/> (Rush surcharge applies) ** Date report requested:		Copy results to Local Health Dept. Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>			

Client Name: CITY OF KINGSTON Client Phone No: 845-334-3968 Project/Facility Name: RONDOUT CREEK  
 Mailing Address: 420 BROADWAY Client Email: aadin@kingston-ny.gov Location: \_\_\_\_\_  
KINGSTON, NY 12401 Copy Report To: RALPH SWENSON PWS Fed ID No: NY-

**LAB USE ONLY**
**CLIENT: COMPLETE THE SAMPLE INFORMATION IN THE SPACE PROVIDED BELOW**
**LAB USE ONLY**

Order ID No: <u>123464</u> Sample No:	Sample Identification & Sample Point	Matrix	(Check One)			Treatment Type & Residual	Date/Time Sampled	Analysis Requested	Container & Preservative	Iced Y/N	Sample Temp. Deg C	Pres. at Lab Y/N
			Grab	Comp # hrs	First Draw							
<u>220265</u>	SITE #1	SW	X				<u>9:12 14</u> <u>9:38A</u>	SS TSS	1-1LPLAS 1-1/2 L PLAS	<u>11</u>	<u>16.9/20.1</u>	
<u>266</u>	SITE #2	SW	X				<u>9:47A</u>	SS TSS	1-1LPLAS 1-1/2 L PLAS	<u>11</u>	<u>21.4/20.9</u>	
<u>267</u>	SITE #3	SW	X				<u>9:52A</u>	SS TSS	1-1LPLAS 1-1/2 L PLAS		<u>14.3</u> <u>18.1</u>	
<u>268</u>	SITE #4	SW	X				<u>9:58A</u>	SS TSS	1-1LPLAS 1-1/2 L PLAS		<u>15.6</u> <u>16.1</u>	
<u>269</u>	SITE #5	SW	X				<u>10:04A</u>	SS TSS	1-1LPLAS 1-1/2 L PLAS		<u>16.6</u> <u>20.1</u>	
<u>270</u>	SITE #6	SW	X				<u>9:56A</u>	SS TSS	1-1LPLAS 1-1/2 L PLAS		<u>15.3</u> <u>16.7</u>	
<u>271</u>	SITE #7	SW	X				<u>10:35A</u>	SS TSS	1-1LPLAS 1-1/2 L PLAS		<u>20.1</u> <u>19.4</u>	
<u>272</u>	DUPLICATE	SW	X				<u>9:52A</u>	SS TSS	1-1LPLAS 1-1/2 L PLAS		<u>15.1</u> <u>16.1</u>	

Sampled By: (Name) ALAN ADIN (Title) ENGINEER/TECH I hereby affirm that the information above is true and complete to the best of my knowledge. I also affirm that I am responsible for payment, unless other payment arrangements are approved in advance by Smith Laboratory.

Sample Relinquished By: ALAN ADIN Received By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Sample Relinquished By: \_\_\_\_\_ Received at Lab By: [Signature] Date: 8/12/14 Time: 12:15pm

Sample(s) received met the following requirements  
 Thermal Preservation: NA ☒ Yes ☐ No  
 Chemical Preservation: NA ☒ Yes ☐ No  
 Correct Bottle Type ☒ Yes ☐ No  
 Other \_\_\_\_\_

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



Initials:

BS Z-8

Date: Aug 18, 2014

Page 1 of 1

Sampling Team:

RAY SCHAFER / RALPH JENSEN

Weather:

PARTLY CLOUDY

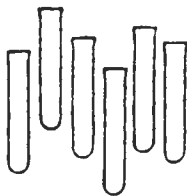
Temperature: 70's

Direction of Flow:

OUTGOING TIDE (EASTERLY)

DRY WEATHER.

Sampling Location	Time	Field Parameter	Physical Observations	Comments
SITE #1: MID-ROAD CREEK APPROX. 250 YDS UPSTREAM OF WILBUR AVE. OUTFALL	LATITUDE: 41.906 LONGITUDE: 74.004	DO 8.1 temperature 27.3°C	Grease NONE Floatables NONE Odors NONE	TIDE: <u>OUT</u> APPROX. 15 YDS WESTERLY OF FEELEY DRY DOCK AT PROPERTY BOUNDARY BETWEEN FEELEY AND RECYCLING BUSINESS 11:00 AM
SITE #2: MID-ROAD CREEK - UPSTREAM OF BLOCK PARK	LAT: 41.912 LONG: 73.992	DO 7.8 temperature 23.4°C	Grease NONE Floatables NONE Odors NONE	TIDE: <u>OUT</u> 50 YDS SOUTHERLY OF ISLAND DOCK CAUSEWAY CULVERTS 11:12 AM
SITE #3: MID-ROAD CREEK APPROX. 150 YDS UPSTREAM OF OLD BRIDGE	LAT: 41.915 LONG: 73.784	DO 7.8 temperature 23.7°C	Grease NONE Floatables NONE Odors NONE	TIDE: <u>OUT</u> 25 YDS SOUTHERLY OF OLD STEEL BOILER PROTRUDING FROM WATER NEAR ISLAND DOCK BULKHEAD 11:20 AM
SITE #6: MID-ROAD CREEK UNDER NEW BRIDGE	LAT: 41.915 LONG: 73.981	DO 7.9 temperature 23.7°C	Grease NONE Floatables NONE Odors NONE	TIDE: <u>OUT</u> 50 YDS SOUTHERLY OF CLEARWATER MAINTENANCE SHED, DOUBLE SLIDE DOORS 11:25 AM
SITE #4: MID-ROAD CREEK APPROX. 200 YDS DOWNSTREAM OF NEW BRIDGE	LAT: 41.913 LONG: 73.479	DO 7.8 temperature 23.6°C	Grease NONE Floatables <u>LIGHT</u> Odors NONE	TIDE: <u>OUT</u> 50 YDS SOUTHERLY OF STEELHOUSE RESTAURANT COVERED PATIO 11:30 AM
SITE #5: MID-ROAD CREEK UPSTREAM OF BLOCK PARK	LAT: 41.922 LONG: 73.729	DO 7.1 temperature 23.5°C	Grease NONE Floatables NONE Odors NONE	TIDE: <u>OUT</u> 50 YDS SOUTHERLY CROSSING WARNING SAS LINE N 11:36 AM
SITE #7: MID-ROAD CREEK APPROX. 3/4 MILE UPSTREAM OF EDDYVILLE DAM AT NYSDEL BOAT LAUNCH	LAT: 41.885 LONG: 74.030	DO 7.1 temperature 23.0°C	Grease NONE Floatables <u>LIGHT</u> Odors NONE	FLOW: ALWAYS EASTERLY (NOT TIDAL. STRAIGHT END BOAT LAUNCH) 12:15 PM
DUPLICATE (SITE 4)	LAT: 41.913 LONG: 73.479	DO 7.8 temperature 23.6°C	Grease NONE Floatables <u>LIGHT</u> Odors NONE	SAME SITE 4



# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office

Attn: Alan Adin

420 Broadway

Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek

**Sample Type:** Surface Water

**Order comment:**

**Order ID:** 123649

---

**Sample Number:** 220660

**Sample Location:** Site #1, grab

**Sample Comment:** FC rec'd at 9.3 deg C

**Date/Time sample collected:** 8/18/2014 11:00

**Collected By:** Ralph Swenson

**Date/Time sample received:** 8/18/2014 13:40

**Received by:** Karolina

**Date/Time sample analyzed:** 8/18/2014 16:40

**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	20	CFU/100mL	SM 18 9222D

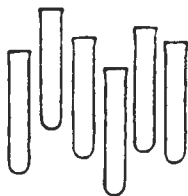
\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

21-Aug-14

*Smith Laboratory is approved as an Environmental Testing Laboratory in conformance with the National Environmental Laboratory Accreditation Conference (NELAC) Standards. This test report pertains only to the above items analyzed on this sample as received by the laboratory. Information supplied by the client is assumed to be correct.*



# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office

Attn: Alan Adin

420 Broadway

Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek

**Sample Type:** Surface Water

**Order comment:**

**Order ID:** 123649

---

**Sample Number:** 220661

**Sample Location:** Site #2, grab

**Sample Comment:** FC rec'd at 10.9 deg C

**Date/Time sample collected:** 8/18/2014 11:12

**Collected By:** Ralph Swenson

**Date/Time sample received:** 8/18/2014 13:40

**Received by:** Karolina

**Date/Time sample analyzed:** 8/18/2014 16:40

**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	10	CFU/100mL	SM 18 9222D

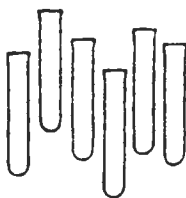
\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

21-Aug-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office

Attn: Alan Adin

420 Broadway

Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek

**Sample Type:** Surface Water

**Order comment:**

**Order ID:** 123649

---

**Sample Number:** 220662

**Sample Location:** Site #3, grab

**Sample Comment:** FC rec'd at 10.8 deg C

**Date/Time sample collected:** 8/18/2014 11:20

**Collected By:** Ralph Swenson

**Date/Time sample received:** 8/18/2014 13:40

**Received by:** Karolina

**Date/Time sample analyzed:** 8/18/2014 16:40

**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	10	CFU/100mL	SM 18 9222D

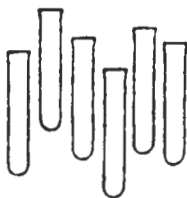
\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

21-Aug-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office

Attn: Alan Adin

420 Broadway

Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek

**Sample Type:** Surface Water

**Order comment:**

**Order ID:** 123649

---

**Sample Number:** 220663

**Sample Location:** Site #4, grab

**Sample Comment:** FC rec'd at 10.6 deg C

**Date/Time sample collected:** 8/18/2014 11:30

**Collected By:** Ralph Swenson

**Date/Time sample received:** 8/18/2014 13:40

**Received by:** Karolina

**Date/Time sample analyzed:** 8/18/2014 16:40

**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	10	CFU/100mL	SM 18 9222D

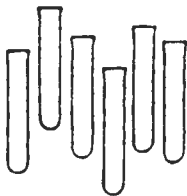
\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

21-Aug-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office

Attn: Alan Adin

420 Broadway

Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek

**Sample Type:** Surface Water

**Order comment:**

**Order ID:** 123649

---

**Sample Number:** 220664

**Sample Location:** Site #5, grab

**Sample Comment:** FC rec'd at 10.8 deg C

**Date/Time sample collected:** 8/18/2014 11:36

**Collected By:** Ralph Swenson

**Date/Time sample received:** 8/18/2014 13:40

**Received by:** Karolina

**Date/Time sample analyzed:** 8/18/2014 16:40

**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	< 10	CFU/100mL	SM 18 9222D

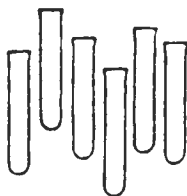
\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

21-Aug-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office

Attn: Alan Adin

420 Broadway

Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek

**Sample Type:** Surface Water

**Order comment:**

**Order ID:** 123649

---

**Sample Number:** 220665

**Sample Location:** Site #6, grab

**Sample Comment:** FC rec'd at 9.4 deg C

**Date/Time sample collected:** 8/18/2014 11:25

**Collected By:** Ralph Swenson

**Date/Time sample received:** 8/18/2014 13:40

**Received by:** Karolina

**Date/Time sample analyzed:** 8/18/2014 16:40

**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	30	CFU/100mL	SM 18 9222D

\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

**Reviewed by:** Lab Manager, ELAP Lab ID #10924

21-Aug-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office

Attn: Alan Adin

420 Broadway

Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek

**Sample Type:** Surface Water

**Order comment:**

**Order ID:** 123649

---

**Sample Number:** 220666

**Sample Location:** Site #7, grab

**Sample Comment:** FC rec'd at 8.9 deg C

**Date/Time sample collected:** 8/18/2014 12:15

**Collected By:** Ralph Swenson

**Date/Time sample received:** 8/18/2014 13:40

**Received by:** Karolina

**Date/Time sample analyzed:** 8/18/2014 16:40

**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	< 10	CFU/100mL	SM 18 9222D

\*Bacteriological test results are expressed as Colony Forming Units.

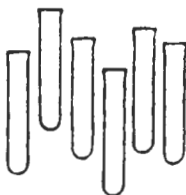
**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

21-Aug-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office

Attn: Alan Adin

420 Broadway

Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek

**Sample Type:** Surface Water

**Order comment:**

**Order ID:** 123649

---

**Sample Number:** 220667

**Sample Location:** Duplicate, Site 4, grab

**Sample Comment:** FC rec'd at 9.8 deg C

**Date/Time sample collected:** 8/18/2014 11:30

**Collected By:** Ralph Swenson

**Date/Time sample received:** 8/18/2014 13:40

**Received by:** Karolina

**Date/Time sample analyzed:** 8/18/2014 16:40

**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	20	CFU/100mL	SM 18 9222D

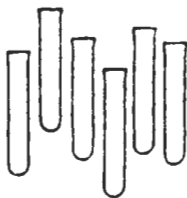
\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by Lab Manager, ELAP Lab ID #10924

21-Aug-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office

Attn: Alan Adin

420 Broadway

Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek

**Sample Type:** Water

**Order comment:**

**Order ID:** 123649

---

**Sample Number:** 220668

**Sample Location:** Blank-QC

**Sample Comment:** 100 mL buffered rinse water used.

**Date/Time sample collected:** 8/18/2014 16:40

**Collected By:**

**Date/Time sample received:** 8/18/2014 16:40

**Received by:** Karolina

**Date/Time sample analyzed:** 8/18/2014 16:40

**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	< 1	CFU/100mL	SM 18 9222D

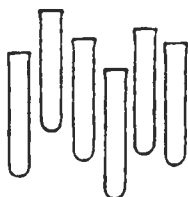
\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

21-Aug-14

*Smith Laboratory is approved as an Environmental Testing Laboratory in conformance with the National Environmental Laboratory Accreditation Conference (NELAC) Standards. This test report pertains only to the above items analyzed on this sample as received by the laboratory. Information supplied by the client is assumed to be correct.*



# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

**Sample Type:** Surface Water  
**Client Project Name:** Rondout Creek  
**Order comment:**

**Order ID:** 123649 **Sample Number:** 220660

**Sample Location:** Site #1, grab

**Date/Time sample collected:** 8/18/2014 11:00

**Sample Collected By:** Ralph Swenson

**Date/Time samples received:** 8/18/2014 13:40

**Sample Received by:** Karolina

**Sample Comment:** FC rec'd at 9.3 deg C

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Total Suspended Solids	4	mg/L	SM20 2540 D	8/19/2014		SW
Solids, Settleable	< 0.1	mL/L	SM20 2540F	8/18/2014	13:50	SW

**Order ID:** 123649 **Sample Number:** 220661

**Sample Location:** Site #2, grab

**Date/Time sample collected:** 8/18/2014 11:12

**Sample Collected By:** Ralph Swenson

**Date/Time samples received:** 8/18/2014 13:40

**Sample Received by:** Karolina

**Sample Comment:** FC rec'd at 10.9 deg C

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Total Suspended Solids	2	mg/L	SM20 2540 D	8/19/2014		SW
Solids, Settleable	< 0.1	mL/L	SM20 2540F	8/18/2014	13:50	SW

**Order ID:** 123649 **Sample Number:** 220662

**Sample Location:** Site #3, grab

**Date/Time sample collected:** 8/18/2014 11:20

**Sample Collected By:** Ralph Swenson

**Date/Time samples received:** 8/18/2014 13:40

**Sample Received by:** Karolina

**Sample Comment:** FC rec'd at 10.8 deg C

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Total Suspended Solids	3	mg/L	SM20 2540 D	8/19/2014		SW
Solids, Settleable	< 0.1	mL/L	SM20 2540F	8/18/2014	13:50	SW

**Order ID:** 123649 **Sample Number:** 220663

**Sample Location:** Site #4, grab

**Date/Time sample collected:** 8/18/2014 11:30

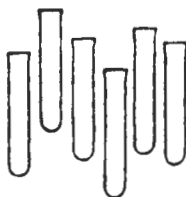
**Sample Collected By:** Ralph Swenson

**Date/Time samples received:** 8/18/2014 13:40

**Sample Received by:** Karolina

**Sample Comment:** FC rec'd at 10.6 deg C

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Total Suspended Solids	4	mg/L	SM20 2540 D	8/19/2014		SW
Solids, Settleable	< 0.1	mL/L	SM20 2540F	8/18/2014	13:50	SW



# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

**Order ID:** 123649      **Sample Number:** 220664  
**Sample Location:** Site #5, grab  
**Date/Time sample collected:** 8/18/2014 11:36      **Sample Collected By:** Ralph Swenson  
**Date/Time samples received:** 8/18/2014 13:40      **Sample Received by:** Karolina  
**Sample Comment:** FC rec'd at 10.8 deg C

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Total Suspended Solids	4	mg/L	SM20 2540 D	8/19/2014		SW
Solids, Settleable	< 0.1	mL/L	SM20 2540F	8/18/2014	13:50	SW

---

**Order ID:** 123649      **Sample Number:** 220665  
**Sample Location:** Site #6, grab  
**Date/Time sample collected:** 8/18/2014 11:25      **Sample Collected By:** Ralph Swenson  
**Date/Time samples received:** 8/18/2014 13:40      **Sample Received by:** Karolina  
**Sample Comment:** FC rec'd at 9.4 deg C

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Total Suspended Solids	5	mg/L	SM20 2540 D	8/19/2014		SW
Solids, Settleable	< 0.1	mL/L	SM20 2540F	8/18/2014	13:50	SW

---

**Order ID:** 123649      **Sample Number:** 220666  
**Sample Location:** Site #7, grab  
**Date/Time sample collected:** 8/18/2014 12:15      **Sample Collected By:** Ralph Swenson  
**Date/Time samples received:** 8/18/2014 13:40      **Sample Received by:** Karolina  
**Sample Comment:** FC rec'd at 8.9 deg C

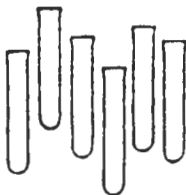
Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Total Suspended Solids	2	mg/L	SM20 2540 D	8/19/2014		SW
Solids, Settleable	< 0.1	mL/L	SM20 2540F	8/18/2014	13:50	SW

---

**Order ID:** 123649      **Sample Number:** 220667  
**Sample Location:** Duplicate, Site 4, grab  
**Date/Time sample collected:** 8/18/2014 11:30      **Sample Collected By:** Ralph Swenson  
**Date/Time samples received:** 8/18/2014 13:40      **Sample Received by:** Karolina  
**Sample Comment:** FC rec'd at 9.8 deg C

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Total Suspended Solids	5	mg/L	SM20 2540 D	8/19/2014		SW
Solids, Settleable	< 0.1	mL/L	SM20 2540F	8/18/2014	13:50	SW

---



# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

### Results Comment:

Reviewed by: Laboratory Manager, ELAP Lab ID #10924

29-Aug-14

Key: < = less than; A=Analysis performed over holding time; C=degrees Celsius; B=BOD blank depletion was greater than 0.2 mg/L; D=Elevated reporting limit; Est=Estimated Value; H=Sample received over analysis holding time; J=Result estimated below quantitation limit; MCL=New York State Maximum Contaminant Level; MDL=Method Detection Limit; mg/kg=milligrams per kilogram dry weight; mg/L=milligrams per Liter; mL/L=milliliters per Liter; ND=Not Detected; NTU=Nephelometric Turbidity Units; PtCo=Platinum Cobalt Units; Q=Not all QC data met acceptance criteria; SI = Saturation Index; SU=Standard pH Units; TON=Threshold Odor Number at 44.5 degrees C; ug/L-micrograms per Liter; umho/cm=micromhos per centimeter; V=Value above quantitation range; \*ELAP/NELAC does not offer certification for this analyte; \*\*ELAP ID is listed for sub-contract laboratory

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Total number of pages in this report, including chain of custody, is

4

## SMITH LABORATORY

4 Scenic Drive

Hyde Park, NY 12538-1313

Phone: 845-229-6536

Fax: 845-229-6538

## CHAIN OF CUSTODY

Turnaround Time: Standard ☒RUSH ☐ (Rush surcharge applies)

\*\* Date report requested: \_\_\_\_\_

Copy results to

Local Health Dept.

Yes ☐ No ☒

Login Review:

Amt Due:

Amt Paid:

Pmt Method:

Receipt No:

Client Name: CITY OF KINGSTONClient Phone No: 845-334-3968 Project/Facility Name: RONDOUT CREEKMailing Address: 420 BROADWAYClient Email: aadin@kingston-ny.gov Location: NOTEDKINGSTON, NY 12401Copy Report To: RALPH SWENSON PWS Fed ID No: NY-

## LAB USE ONLY

## CLIENT: COMPLETE THE SAMPLE INFORMATION IN THE SPACE PROVIDED BELOW

## LAB USE ONLY

Order ID No: Sample No:	Sample Identification & Sample Point	Matrix	(Check One)			Treatment Type & Residual	Date/Time Sampled	Analysis Requested	Container & Preservative	Iced Y/N	Sample Temp, Deg C	Pres. at Lab Y/N
			Grab	Comp # hrs	First Draw							
123049							8/18/14					
2206060	SITE #1	SW	X				11am	SS TSS	1-1LPLAS 1-1/2 L PLAS	✓	8.1	✓
2206061	SITE #2	SW	X				11:12	SS TSS	1-1LPLAS 1-1/2 L PLAS	✓	6.1	✓
2206062	SITE #3	SW	X				11:20	SS TSS	1-1LPLAS 1-1/2 L PLAS	✓	12.8	✓
2206063	SITE #4	SW	X				11:30	SS TSS	1-1LPLAS 1-1/2 L PLAS	✓	10.9	✓
2206064	SITE #5	SW	X				11:36	SS TSS	1-1LPLAS 1-1/2 L PLAS	✓	13.1	✓
2206065	SITE #6	SW	X				11:75	SS TSS	1-1LPLAS 1-1/2 L PLAS	✓	9.6	✓
2206066	SITE #7	SW	X				12:15	SS TSS	1-1LPLAS 1-1/2 L PLAS	✓	11.3	✓
2206067	DUPLICATE (SITE 4)	SW	X				11:30	SS TSS	1-1LPLAS 1-1/2 L PLAS	✓	11.3	✓
2206068	Blank											

Sampled By: (Name) RALPH SWENSON (Title) CITY ENGINEER I hereby affirm that the information above is true and complete to the best of my knowledge. I also affirm that I am responsible for payment, unless other payment arrangements are approved in advance by Smith Laboratory.

Sample Relinquished By: Ralph Swenson

Received By: \_\_\_\_\_

Date: 8-18-14 Time: 1:40 PM

Sample Relinquished By: \_\_\_\_\_

Received at Lab By: R. SwensonDate: 8/18/14 Time: 1340

## Sample(s) received met the following requirements

Thermal Preservation: NA ☒ Yes ☐ NoChemical Preservation: NA ☒ Yes ☐ NoCorrect Bottle Type ☒ Yes ☐ No

Other \_\_\_\_\_

Comments: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Initials:

AM

Date: 5-26-14

Page \_\_\_ of \_\_\_

Sampling Team:

A. Adin, A. Winkler, J. Podesszelik

Weather:

clear - 80°

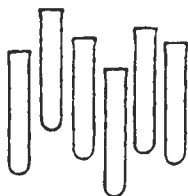
Temperature:

Direction of Flow:

incoming tide westerly

low tide 2:57P

Sampling Location	Time	Field Parameter	Physical Observations	Comments
SITE #1: MID-ROADOUT CREEK APPROX. 250 YDS UPSTREAM OF WILBUR AVE. OUTFALL	LATITUDE: 41.906 LONGITUDE: 74.04 11:16A	DO temperature	Grease NONE Floatables NONE Odors NONE	TIDE: incoming westerly APPROX. 15 YDS WESTERLY OF FEEHEY DRY DOCK AT PROPERTY BOUNDARY BETWEEN FEEHEY AND RECYCLING BUSINESS
SITE #2: MID-ROADOUT CREEK - UPSTREAM OF BLOCK PARK	LAT: 41.912 LONG: 73.992 11:28A	DO temperature	Grease NONE Floatables NONE Odors NONE	TIDE: incoming westerly 50 YDS SOUTHERLY OF ISLAND DOCK CAUSEWAY CULVERTS
SITE #3: MID-ROADOUT CREEK APPROX. 150 YDS UPSTREAM OF OLD BRIDGE	LAT: 41.915 LONG: 73.984 11:37A	DO temperature	Grease NONE Floatables NONE Odors NONE	TIDE: incoming westerly 25 YDS SOUTHERLY OF OLD STEEL BOILER PROTRUDING FROM WATER NEAR ISLAND DOCK BULKHEAD
SITE #6: MID-ROADOUT CREEK UNDER NEW BRIDGE	LAT: 41.915 LONG: 73.981 11:43A	DO temperature	Grease NONE Floatables NONE Odors NONE	TIDE: incoming westerly 50 YDS SOUTHERLY OF CLEARWATER MAINTENANCE SHED, DOUBLE SLIDE DOORS
SITE #4: MID-ROADOUT CREEK APPROX. 200 YDS DOWNSTREAM OF NEW BRIDGE	LAT: 41.913 LONG: 73.979 11:45A	DO temperature	Grease NONE Floatables NONE Odors NONE	TIDE: incoming westerly 50 YDS SOUTHERLY F STEELHOUSE RESTAURANT COVER PATIO
SITE #5: MID-ROADOUT CREEK UPSTREAM OF BLOCK PARK	LAT: 41.922 LONG: 73.969 11:57A	DO temperature	Grease NONE Floatables minimal Odors NONE	TIDE: incoming westerly 50 YDS SOUTHERLY CROSSING WARWICK vegetative debris GAS LINE IGN
SITE #7: MID-ROADOUT CREEK APPROX. 3/4 MILE UPSTREAM OF EDDYVILLE DAM AT NYSDEC BOAT LAUNCH	LAT: 41.885 LONG: 74.030 12:28P	DO temperature	Grease NONE Floatables minimal Odors * NONE	FLOW: ALWAYS EASTERLY (DOWN STREAM) - LOCATION NOT TIDAL. STRAIGHT OUT FROM WESTERLY END BOAT LAUNCH vegetative debris
DUPLICATE	LAT: 41.922 LONG: SITE #5 11:57A	DO temperature	Grease NONE Floatables NONE Odors NONE	SITE #5



# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office

Attn: Alan Adin

420 Broadway

Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek

**Sample Type:** Surface Water

**Order comment:**

**Order ID:** 123905

---

**Sample Number:** 221164

**Sample Location:** Site #1, grab

**Sample Comment:** FC rec'd at 4.4 deg C.

**Date/Time sample collected:** 8/26/2014 11:16

**Collected By:** Alan Adin

**Date/Time sample received:** 8/26/2014 14:30

**Received by:** Amy Jo

**Date/Time sample analyzed:** 8/26/2014 17:00

**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	30	CFU/100mL	SM 18 9222D

\*Bacteriological test results are expressed as Colony Forming Units.

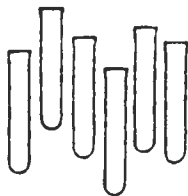
**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

28-Aug-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office

Attn: Alan Adin

420 Broadway

Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek

**Sample Type:** Surface Water

**Order comment:**

**Order ID:** 123905

---

**Sample Number:** 221165

**Sample Location:** Site #2, grab

**Sample Comment:** FC rec'd at 5.1 deg C.

**Date/Time sample collected:** 8/26/2014 11:28

**Collected By:** Alan Adin

**Date/Time sample received:** 8/26/2014 14:30

**Received by:** Amy Jo

**Date/Time sample analyzed:** 8/26/2014 17:00

**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	40	CFU/100mL	SM 18 9222D

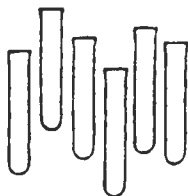
\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by Lab Manager, ELAP Lab ID #10924

28-Aug-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office

Attn: Alan Adin

420 Broadway

Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek

**Sample Type:** Surface Water

**Order comment:**

**Order ID:** 123905

---

**Sample Number:** 221166

**Sample Location:** Site #3, grab

**Sample Comment:** FC rec'd at 5.9 deg C.

**Date/Time sample collected:** 8/26/2014 11:37

**Collected By:** Alan Adin

**Date/Time sample received:** 8/26/2014 14:30

**Received by:** Amy Jo

**Date/Time sample analyzed:** 8/26/2014 17:00

**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	20	CFU/100mL	SM 18 9222D

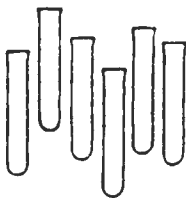
\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

28-Aug-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office

Attn: Alan Adin

420 Broadway

Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek

**Sample Type:** Surface Water

**Order comment:**

**Order ID:** 123905

---

**Sample Number:** 221167

**Sample Location:** Site #4, grab

**Sample Comment:** FC rec'd at 7.5 deg C.

**Date/Time sample collected:** 8/26/2014 11:48

**Collected By:** Alan Adin

**Date/Time sample received:** 8/26/2014 14:30

**Received by:** Amy Jo

**Date/Time sample analyzed:** 8/26/2014 17:00

**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	10	CFU/100mL	SM 18 9222D

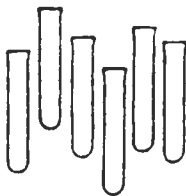
\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

28-Aug-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office

Attn: Alan Adin

420 Broadway

Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek

**Sample Type:** Surface Water

**Order comment:**

**Order ID:** 123905

---

**Sample Number:** 221168

**Sample Location:** Site #5, grab

**Sample Comment:** FC rec'd at 8.8 deg C.

**Date/Time sample collected:** 8/26/2014 11:57

**Collected By:** Alan Adin

**Date/Time sample received:** 8/26/2014 14:30

**Received by:** Amy Jo

**Date/Time sample analyzed:** 8/26/2014 17:00

**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	70	CFU/100mL	SM 18 9222D

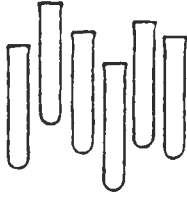
\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

28-Aug-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek  
**Sample Type:** Surface Water  
**Order comment:**  
**Order ID:** 123905

---

**Sample Number:** 221169  
**Sample Location:** Site #6, grab  
**Sample Comment:** FC rec'd at 6.7 deg C.  
**Date/Time sample collected:** 8/26/2014 11:43  
**Date/Time sample received:** 8/26/2014 14:30  
**Date/Time sample analyzed:** 8/26/2014 17:00

**Collected By:** Alan Adin  
**Received by:** Amy Jo  
**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	70	CFU/100mL	SM 18 9222D

---

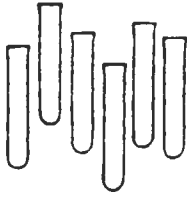
\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

28-Aug-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
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## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office

Attn: Alan Adin

420 Broadway

Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek

**Sample Type:** Surface Water

**Order comment:**

**Order ID:** 123905

---

**Sample Number:** 221170

**Sample Location:** Site #7, grab

**Sample Comment:** FC rec'd at 10.7 deg C.

**Date/Time sample collected:** 8/26/2014 12:28

**Collected By:** Alan Adin

**Date/Time sample received:** 8/26/2014 14:30

**Received by:** Amy Jo

**Date/Time sample analyzed:** 8/26/2014 17:00

**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	< 10	CFU/100mL	SM 18 9222D

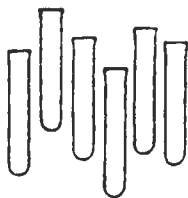
\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

28-Aug-14

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ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
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## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek  
**Sample Type:** Surface Water  
**Order comment:**  
**Order ID:** 123905

---

**Sample Number:** 221171  
**Sample Location:** Duplicate, grab  
**Sample Comment:** FC rec'd at 6.8 deg C.  
**Date/Time sample collected:** 8/26/2014 11:57  
**Date/Time sample received:** 8/26/2014 14:30  
**Date/Time sample analyzed:** 8/26/2014 17:00

**Collected By:** Alan Adin  
**Received by:** Amy Jo  
**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	60	CFU/100mL	SM 18 9222D

---

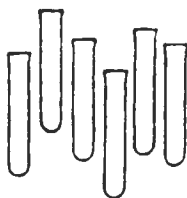
\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

28-Aug-14

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## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office

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420 Broadway

Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek

**Sample Type:** Water

**Order comment:**

**Order ID:** 123905

---

**Sample Number:** 221172

**Sample Location:** Blank-QC

**Sample Comment:** 100 mL buffered rinse water used.

**Date/Time sample collected:** 8/26/2014 17:00

**Collected By:**

**Date/Time sample received:** 8/26/2014 17:00

**Received by:** Amy Jo

**Date/Time sample analyzed:** 8/26/2014 17:00

**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	< 1	CFU/100mL	SM 18 9222D

\*Bacteriological test results are expressed as Colony Forming Units.

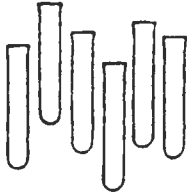
**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

28-Aug-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

Client: VRI Environmental

PO Box 943  
Millbrook

NY 12545

PO #

---

Client Project Name: Vandenburg Cove South  
Sample Type: Wastewater  
Order comment:  
Order ID: 123920

---

Sample Number: 221209  
Sample Location: Final/TCI2=1.2 ppm  
Sample Comment: FC rec'd at 21.3 deg C.  
Date/Time sample collected: 8/26/2014 14:25  
Date/Time sample received: 8/26/2014 15:10  
Date/Time sample analyzed: 8/26/2014 17:00

Collected By: CQ  
Received by: Amy Jo  
Tech: SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	< 20	CFU/100mL	SM 18 9222D

---

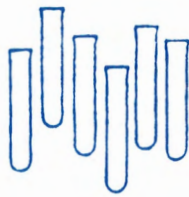
\*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

28-Aug-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

**Sample Type:** Surface Water  
**Client Project Name:** Rondout Creek  
**Order comment:**

**Order ID:** 123905 **Sample Number:** 221164  
**Sample Location:** Site #1, grab  
**Date/Time sample collected:** 8/26/2014 11:16  
**Date/Time samples received:** 8/26/2014 14:30  
**Sample Comment:** FC rec'd at 4.4 deg C.

**Sample Collected By:** Alan Adin  
**Sample Received by:** Amy Jo

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Solids, Settleable	< 0.1	mL/L	SM20 2540F	8/26/2014	16:40	LAE
Total Suspended Solids	2	mg/L	SM20 2540 D	8/27/2014		SW

**Order ID:** 123905 **Sample Number:** 221165  
**Sample Location:** Site #2, grab  
**Date/Time sample collected:** 8/26/2014 11:28  
**Date/Time samples received:** 8/26/2014 14:30  
**Sample Comment:** FC rec'd at 5.1 deg C.

**Sample Collected By:** Alan Adin  
**Sample Received by:** Amy Jo

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Solids, Settleable	< 0.1	mL/L	SM20 2540F	8/26/2014	16:40	LAE
Total Suspended Solids	2	mg/L	SM20 2540 D	8/27/2014		SW

**Order ID:** 123905 **Sample Number:** 221166  
**Sample Location:** Site #3, grab  
**Date/Time sample collected:** 8/26/2014 11:37  
**Date/Time samples received:** 8/26/2014 14:30  
**Sample Comment:** FC rec'd at 5.9 deg C.

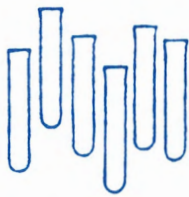
**Sample Collected By:** Alan Adin  
**Sample Received by:** Amy Jo

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Solids, Settleable	< 0.1	mL/L	SM20 2540F	8/26/2014	16:40	LAE
Total Suspended Solids	3	mg/L	SM20 2540 D	8/27/2014		SW

**Order ID:** 123905 **Sample Number:** 221167  
**Sample Location:** Site #4, grab  
**Date/Time sample collected:** 8/26/2014 11:48  
**Date/Time samples received:** 8/26/2014 14:30  
**Sample Comment:** FC rec'd at 7.5 deg C.

**Sample Collected By:** Alan Adin  
**Sample Received by:** Amy Jo

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Solids, Settleable	< 0.1	mL/L	SM20 2540F	8/26/2014	16:40	LAE
Total Suspended Solids	4	mg/L	SM20 2540 D	8/27/2014		SW



# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

Order ID: 123905      Sample Number: 221168  
Sample Location: Site #5, grab  
Date/Time sample collected: 8/26/2014 11:57      Sample Collected By: Alan Adin  
Date/Time samples received: 8/26/2014 14:30      Sample Received by: Amy Jo  
Sample Comment: FC rec'd at 8.8 deg C.

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Solids, Settleable	< 0.1	mL/L	SM20 2540F	8/26/2014	16:40	LAE
Total Suspended Solids	11	mg/L	SM20 2540 D	8/27/2014		SW

---

Order ID: 123905      Sample Number: 221169  
Sample Location: Site #6, grab  
Date/Time sample collected: 8/26/2014 11:43      Sample Collected By: Alan Adin  
Date/Time samples received: 8/26/2014 14:30      Sample Received by: Amy Jo  
Sample Comment: FC rec'd at 6.7 deg C.

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Solids, Settleable	< 0.1	mL/L	SM20 2540F	8/26/2014	16:40	LAE
Total Suspended Solids	4	mg/L	SM20 2540 D	8/27/2014		SW

---

Order ID: 123905      Sample Number: 221170  
Sample Location: Site #7, grab  
Date/Time sample collected: 8/26/2014 12:28      Sample Collected By: Alan Adin  
Date/Time samples received: 8/26/2014 14:30      Sample Received by: Amy Jo  
Sample Comment: FC rec'd at 10.7 deg C.

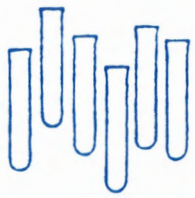
Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Solids, Settleable	< 0.1	mL/L	SM20 2540F	8/26/2014	16:40	LAE
Total Suspended Solids	2	mg/L	SM20 2540 D	8/27/2014		SW

---

Order ID: 123905      Sample Number: 221171  
Sample Location: Duplicate, grab  
Date/Time sample collected: 8/26/2014 11:57      Sample Collected By: Alan Adin  
Date/Time samples received: 8/26/2014 14:30      Sample Received by: Amy Jo  
Sample Comment: FC rec'd at 6.8 deg C.

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Solids, Settleable	< 0.1	mL/L	SM20 2540F	8/26/2014	16:40	LAE
Total Suspended Solids	7	mg/L	SM20 2540 D	8/27/2014		SW

---



# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

Order ID: 123905 Sample Number: 221172

Sample Location: Blank-QC

Date/Time sample collected: 8/26/2014 17:00

Sample Collected By:

Date/Time samples received: 8/26/2014 17:00

Sample Received by: Amy Jo

Sample Comment: 100 mL buffered rinse water used.

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Solids, Settleable	< 0.1	mL/L	SM20 2540F	8/26/2014	16:40	LAE
Total Suspended Solids	< 1	mg/L	SM20 2540 D	8/27/2014		SW

Results Comment:

Reviewed by: Laboratory Manager, ELAP Lab ID #10924

17-Sep-14

Key: < = less than; A=Analysis performed over holding time; C=degrees Celsius; B=BOD blank depletion was greater than 0.2 mg/L; D=Elevated reporting limit; Est=Estimated Value; H=Sample received over analysis holding time; J=Result estimated below quantitation limit; MCL=New York State Maximum Contaminant Level; MDL=Method Detection Limit; mg/kg=milligrams per kilogram dry weight; mg/L=milligrams per Liter; mL/L=milliliters per Liter; ND=Not Detected; NTU=Nephelometric Turbidity Units; PtCo=Platinum Cobalt Units; Q=Not all QC data met acceptance criteria; SI = Saturation Index; SU=Standard pH Units; TON=Threshold Odor Number at 44.5 degrees C; ug/L-micrograms per Liter; umho/cm=micromhos per centimeter; V=Value above quantitation range; \*ELAP/NELAC does not offer certification for this analyte; \*\*ELAP ID is listed for sub-contract laboratory

*Smith Laboratory is approved as an Environmental Testing Laboratory in conformance with the National Environmental Laboratory Accreditation Conference (NELAC) Standards. This test report pertains only to the above items analyzed on this sample as received by the laboratory. Information supplied by the client is assumed to be correct.*

Total number of pages in this report, including chain of custody, is 4

## SMITH LABORATORY

4 Scenic Drive

Hyde Park, NY 12538-1313

Phone: 845-229-6536

Fax: 845-229-6538

## CHAIN OF CUSTODY

Turnaround Time: Standard ☒RUSH ☐ (Rush surcharge applies)

\*\* Date report requested: \_\_\_\_\_

Copy results to

Local Health Dept.

Yes ☐ No ☒Login Review: 

Amt Due: \_\_\_\_\_

Amt Paid: \_\_\_\_\_

Pmt Method: \_\_\_\_\_

Receipt No: \_\_\_\_\_

Client Name: CITY OF KINGSTONClient Phone No: 845-334-3968Project/Facility Name: RONDOUT CREEKMailing Address: 420 BROADWAYClient Email: aadin@kingston-ny.gov

Location: \_\_\_\_\_

KINGSTON, NY 12401Copy Report To: RALPH SWENSON

PWS Fed ID No: NY- \_\_\_\_\_

## LAB USE ONLY

## CLIENT: COMPLETE THE SAMPLE INFORMATION IN THE SPACE PROVIDED BELOW

## LAB USE ONLY

Order ID No: Sample No:	Sample Identification & Sample Point	Matrix	(Check One)			Treatment Type & Residual	Date/Time Sampled	Analysis Requested	Container & Preservative	Iced Y/N	Sample Temp, Deg C	Pres. at Lab Y/N
			Grab	Comp # hrs	First Draw							
23905 2311641B	SITE #1	SW	X				8-26-14 11:16A	SS TSS	1-1LPLAS 1-1/2 L PLAS	Y	21.9 21.9	N
1165A/B	SITE #2	SW	X				11:28A	SS TSS	1-1LPLAS 1-1/2 L PLAS		20.4 21.0	
1166	SITE #3	SW	X				11:37A	SS TSS	1-1LPLAS 1-1/2 L PLAS		19.9 21.4	
1167	SITE #4	SW	X				11:48A	SS TSS	1-1LPLAS 1-1/2 L PLAS		20.9 21.5	
1168	SITE #5	SW	X				11:57A	SS TSS	1-1LPLAS 1-1/2 L PLAS		19.6 21.8	
1169	SITE #6	SW	X				11:43A	SS TSS	1-1LPLAS 1-1/2 L PLAS		19.5 21.8	
1170	SITE #7	SW	X				12:28P	SS TSS	1-1LPLAS 1-1/2 L PLAS		16.8 21.2	
1171	DUPLICATE	SW	X				11:57A	SS TSS	1-1LPLAS 1-1/2 L PLAS		22.2 21.0	

Sampled By: (Name) ALAN ADIN (Title) ENGINEERING TECH I hereby affirm that the information above is true and complete to the best of my knowledge. I also affirm that I am responsible for payment, unless other payment arrangements are approved in advance by Smith Laboratory.

Sample Relinquished By: ALAN ADINReceived By: Date: 8/26/14 Time: 1435

Sample Relinquished By: \_\_\_\_\_

Received at Lab By: \_\_\_\_\_

Date: 8/26/14 Time: 1435

Sample(s) received met the following requirements

Thermal Preservation: NA Yes No YesChemical Preservation: NA Yes No YesCorrect Bottle Type Yes No Yes

Other \_\_\_\_\_

Comments: \_\_\_\_\_



Initials:

*RS*

Date: 9-5-14

Page \_\_\_ of \_\_\_

Sampling Team:

*RALPH JOHNSON / RAY SCHIFFER*

Weather:

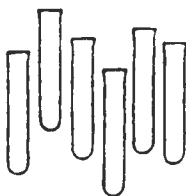
*CLOUDY / SUNNY / 80°F*

Temperature:

Direction of Flow:

*EASTWARD*

Sampling Location	Time	Field Parameter	Physical Observations	Comments
SITE #1: MID-ROAD CREEK APPROX. 250 YDS UPSTREAM OF WILBUR AVE. OUTFALL	LATITUDE: 41.906 LONGITUDE: -74.007	DO 12.5 temperature 21.7°C	Grease NONE Floatables LIGHT Odors NONE	TIDE: <u>OUTGOING</u> APPROX. 15 YDS WESTERLY OF FEEVEY DRY DOCK AT PROPERTY BOUNDARY BETWEEN FEEVEY AND RECYCLING BUSINESS 12:07 PM
SITE #2: MID-ROAD CREEK - UPSTREAM OF BLOCK PARK	LAT: 41.912 LONG: -73.987	DO 12.1 temperature 21.7°C	Grease NONE Floatables NONE Odors NONE	TIDE: <u>OUTGOING</u> 50 YDS SOUTHERLY OF ISLAND DOCK CAUSEWAY CULVERTS 12:18 PM
SITE #3: MID-ROAD CREEK APPROX. 150 YDS UPSTREAM OF OLD BRIDGE	LAT: 41.918 LONG: -73.987	DO 11.1 temperature 21.6°C	Grease NONE Floatables NONE Odors NONE	TIDE: <u>OUTGOING</u> 25 YDS SOUTHERLY OF OLD STEEL BOILER PROTRUDING FROM WATER NEAR ISLAND DOCK BULKHEAD 12:24 PM
SITE #6: MID-ROAD CREEK UNDER NEW BRIDGE	LAT: 41.918 LONG: -73.981	DO 10.4 temperature 21.8°C	Grease NONE Floatables LIGHT Odors NONE	TIDE: <u>OUTGOING</u> 50 YDS SOUTHERLY OF CLEARWATER MAINTENANCE SHED, 3 LE SLIDE DOORS 12:30 PM
SITE #4: MID-ROAD CREEK APPROX. 200 YDS DOWNSTREAM OF NEW BRIDGE	LAT: 41.913 LONG: -73.982	DO 10.8 temperature 21.2°C	Grease NONE Floatables NONE Odors NONE	TIDE: <u>OUTGOING</u> 50 YDS SOUTHERLY RESTAURANT COVER 12:33 PM
SITE #5: MID-ROAD CREEK UPSTREAM OF BLOCK PARK	LAT: 41.922 LONG: -73.969	DO 9.7 temperature 21.3°C	Grease NONE Floatables NONE Odors NONE	TIDE: <u>OUTGOING</u> 50 YDS SOUTHERLY CROSSING WARNING 12:40 PM
SITE #7: MID-ROAD CREEK APPROX. 3/4 MILE UPSTREAM OF EDDYVILLE DAM AT NYSDEL BOAT LAUNCH	LAT: 41.885 LONG: -74.030	DO 9.3 temperature 21.9°C	Grease NONE Floatables NONE Odors NONE	FLOW: ALWAYS EASTERLY (DOWNSTREAM) - LOCATION NOT TIDAL. STRAIGHT OUT FROM WESTERLY END BOAT LAUNCH 1:15 PM
DUPPLICATE	LAT: LONG: SITE 6	DO 10.4 temperature 21.8°C	Grease NONE Floatables LIGHT Odors NONE	SITE 6 12:30 PM



# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office

Attn: Alan Adin

420 Broadway

Kingston

NY 12401

PO #

---

**Client Project Name:** Twaalfskill Brook

**Sample Type:** Surface Water

**Order comment:**

**Order ID:** 124225

---

**Sample Number:** 221790

**Sample Location:** SP4

**Sample Comment:** Rec'd at 9.4 deg C

**Date/Time sample collected:** 9/5/2014 13:33

**Collected By:** Alan Adin

**Date/Time sample received:** 9/5/2014 15:20

**Received by:** Karolina

**Date/Time sample analyzed:** 9/5/2014 17:15

**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	1,900	CFU/100mL	SM 18 9222D

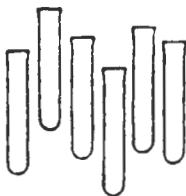
\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

11-Sep-14

*Smith Laboratory is approved as an Environmental Testing Laboratory in conformance with the National Environmental Laboratory Accreditation Conference (NELAC) Standards. This test report pertains only to the above items analyzed on this sample as received by the laboratory. Information supplied by the client is assumed to be correct.*



# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office

Attn: Alan Adin

420 Broadway

Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek

**Sample Type:** Surface Water

**Order comment:**

**Order ID:** 124223

---

**Sample Number:** 221776

**Sample Location:** Site #1, grab

**Sample Comment:** FC rec'd at 11.4 deg C

**Date/Time sample collected:** 9/5/2014 12:07

**Collected By:** Ralph Swenson

**Date/Time sample received:** 9/5/2014 15:20

**Received by:** Karolina

**Date/Time sample analyzed:** 9/5/2014 17:15

**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	30	CFU/100mL	SM 18 9222D

\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

09-Sep-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office

Attn: Alan Adin

420 Broadway

Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek

**Sample Type:** Surface Water

**Order comment:**

**Order ID:** 124223

---

**Sample Number:** 221777

**Sample Location:** Site #2, grab

**Sample Comment:** FC rec'd at 11.4 deg C

**Date/Time sample collected:** 9/5/2014 12:18

**Collected By:** Ralph Swenson

**Date/Time sample received:** 9/5/2014 15:20

**Received by:** Karolina

**Date/Time sample analyzed:** 9/5/2014 17:15

**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	< 10	CFU/100mL	SM 18 9222D

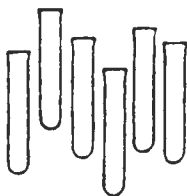
\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

09-Sep-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office

Attn: Alan Adin

420 Broadway

Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek

**Sample Type:** Surface Water

**Order comment:**

**Order ID:** 124223

---

**Sample Number:** 221778

**Sample Location:** Site #3, grab

**Sample Comment:** FC rec'd at 6.1 deg C

**Date/Time sample collected:** 9/5/2014 12:24

**Collected By:** Ralph Swenson

**Date/Time sample received:** 9/5/2014 15:20

**Received by:** Karolina

**Date/Time sample analyzed:** 9/5/2014 17:15

**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	50	CFU/100mL	SM 18 9222D

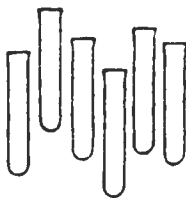
\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

09-Sep-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office

Attn: Alan Adin

420 Broadway

Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek

**Sample Type:** Surface Water

**Order comment:**

**Order ID:** 124223

---

**Sample Number:** 221779

**Sample Location:** Site #4, grab

**Sample Comment:** FC rec'd at 8.3 deg C

**Date/Time sample collected:** 9/5/2014 12:33

**Collected By:** Ralph Swenson

**Date/Time sample received:** 9/5/2014 15:20

**Received by:** Karolina

**Date/Time sample analyzed:** 9/5/2014 17:15

**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	10	CFU/100mL	SM 18 9222D

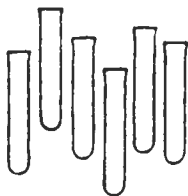
\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

09-Sep-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office

Attn: Alan Adin

420 Broadway

Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek

**Sample Type:** Surface Water

**Order comment:**

**Order ID:** 124223

---

**Sample Number:** 221780

**Sample Location:** Site #5, grab

**Sample Comment:** FC rec'd at 9.7 deg C

**Date/Time sample collected:** 9/5/2014 12:40

**Collected By:** Ralph Swenson

**Date/Time sample received:** 9/5/2014 15:20

**Received by:** Karolina

**Date/Time sample analyzed:** 9/5/2014 17:15

**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	80	CFU/100mL	SM 18 9222D

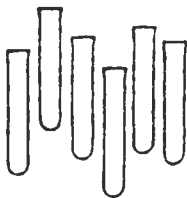
\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

09-Sep-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office

Attn: Alan Adin

420 Broadway

Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek

**Sample Type:** Surface Water

**Order comment:**

**Order ID:** 124223

---

**Sample Number:** 221781

**Sample Location:** Site #6, grab

**Sample Comment:** FC rec'd at 10.9 deg C

**Date/Time sample collected:** 9/5/2014 12:30

**Collected By:** Ralph Swenson

**Date/Time sample received:** 9/5/2014 15:20

**Received by:** Karolina

**Date/Time sample analyzed:** 9/5/2014 17:15

**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	10	CFU/100mL	SM 18 9222D

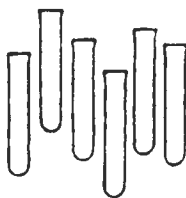
\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

09-Sep-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office

Attn: Alan Adin

420 Broadway

Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek

**Sample Type:** Surface Water

**Order comment:**

**Order ID:** 124223

---

**Sample Number:** 221782

**Sample Location:** Site #7, grab

**Sample Comment:** FC rec'd at 10.6 deg C

**Date/Time sample collected:** 9/5/2014 13:15

**Collected By:** Ralph Swenson

**Date/Time sample received:** 9/5/2014 15:20

**Received by:** Karolina

**Date/Time sample analyzed:** 9/5/2014 17:15

**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	< 10	CFU/100mL	SM 18 9222D

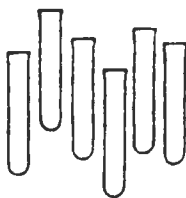
\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

09-Sep-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office

Attn: Alan Adin

420 Broadway

Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek

**Sample Type:** Surface Water

**Order comment:**

**Order ID:** 124223

---

**Sample Number:** 221783

**Sample Location:** Duplicate Site #6, grab

**Sample Comment:** FC rec'd at 9.6 deg C

**Date/Time sample collected:** 9/5/2014 12:30

**Collected By:** Ralph Swenson

**Date/Time sample received:** 9/5/2014 15:20

**Received by:** Karolina

**Date/Time sample analyzed:** 9/5/2014 17:15

**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	50	CFU/100mL	SM 18 9222D

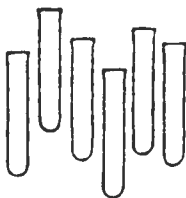
\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

**Reviewed by:** Lab Manager, ELAP Lab ID #10924

09-Sep-14

*Smith Laboratory is approved as an Environmental Testing Laboratory in conformance with the National Environmental Laboratory Accreditation Conference (NELAC) Standards. This test report pertains only to the above items analyzed on this sample as received by the laboratory. Information supplied by the client is assumed to be correct.*



# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office

Attn: Alan Adin

420 Broadway

Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek

**Sample Type:** Water

**Order comment:**

**Order ID:** 124223

---

**Sample Number:** 221784

**Sample Location:** Blank-QC

**Sample Comment:** 100 mL of buffered rinse water used.

**Date/Time sample collected:** 9/5/2014 17:15

**Collected By:**

**Date/Time sample received:** 9/5/2014 17:15

**Received by:** Karolina

**Date/Time sample analyzed:** 9/5/2014 17:15

**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	< 1	CFU/100mL	SM 18 9222D

\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

09-Sep-14

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Attachment 1 - Sampling Event Summary Sheet

INVENT #23

D12/WEATHER

Initials:

Date: 9.9.14

Page \_\_\_ of \_\_\_

Sampling Team:

A. Adair / Ray Schetter

Weather:

Partly sunny

Temperature:

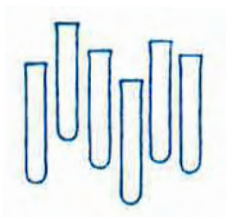
low 70°

Direction of Flow:

in westerly

HIGH TIDE 2:13 pm.

Sampling Location	Time	Field Parameter	Physical Observations	Comments
SITE #1: MID-RONDOUT CREEK APPROX. 250 YDS UPSTREAM OF WILBUR AVE. OUTFALL	LATITUDE: 41.906 LONGITUDE: 73.904 11:42 A	DO 8.7 mg/L temperature 26.2°C	Grease NONE Floatables NONE Odors NONE	TIDE: in westerly APPROX. 15 YDS WESTERLY OF FEENEY DRY DOCK AT PROPERTY BOUNDARY BETWEEN FEENEY AND RECYCLING BUSINESS
SITE #2: MID-RONDOUT CREEK - UPSTREAM OF BLOCK PARK	LAT: 41.912 LONG: 73.992 11:55 A	DO 9.2 mg/L temperature 24.0°C	Grease NONE Floatables NONE Odors NONE	TIDE: in westerly 50 YDS SOUTHERLY OF ISLAND DOCK CAUSEWAY CULVERTS
SITE #3: MID-RONDOUT CREEK APPROX. 150 YDS UPSTREAM OF OLD BRIDGE	LAT: 41.915 LONG: 73.984 12:02 P	DO 8.6 mg/L temperature 24.4°C	Grease NONE Floatables NONE Odors NONE	TIDE: in westerly 25 YDS SOUTHERLY OF OLD STEEL BOILER PROTRUDING FROM WATER NEAR ISLAND DOCK BULKHEAD
SITE #6: MID-RONDOUT CREEK UNDER NEW BRIDGE	LAT: 41.914 LONG: 73.988 12:07 p.	DO 8.1 mg/L temperature 24.1°C	Grease NONE Floatables NONE Odors NONE	TIDE: in westerly 50 YDS SOUTHERLY OF CLEARWATER MAINTENANCE SHED, DOUBLE SLIDE DOORS
SITE #4: MID-RONDOUT CREEK APPROX. 200 YDS DOWNSTREAM OF NEW BRIDGE	LAT: 41.913 LONG: 73.979 12:10 p.	DO 7.7 mg/L temperature 24.2°C	Grease NONE Floatables NONE Odors NONE	TIDE: in westerly 50 YDS SOUTHERLY OF STEELHOUSE RESTAURANT COVERED PATIO
SITE #5: MID-RONDOUT CREEK UPSTREAM OF BLOCK PARK	LAT: 41.922 LONG: 73.909 12:15 P	DO 7.7 mg/L temperature 24.2°C	Grease NONE Floatables MINOR Odors NONE	TIDE: in westerly 50 YDS SOUTHERLY CROSSING WARNING SIGN VEGETATIVE DER
SITE #7: MID-RONDOUT CREEK APPROX. 3/4 MILE UPSTREAM OF EDDVILLE DAM AT NYSDEL BOAT LAUNCH	LAT: 41.955 LONG: 74.070 12:50 P	DO 8.6 mg/L temperature 29.2°C	Grease NONE Floatables NONE Odors NONE	FLOW: ALWAYS EASTERLY (DOWNSTREAM) - LOCATION NOT TIDAL. STRAIGHT IT FROM WESTERLY END BOAT LAUNCH
DUPLICATE	LAT: LONG: SITE #7	DO temperature	Grease Floatables Odors	SITE #7.



# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-8536

## CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

Client Project Name: Rondout Creek  
Sample Type: Surface Water  
Order comment:  
Order ID: 124289

Sample Number: 221914  
Sample Location: Site #1, grab  
Sample Comment: FC rec'd at 8.3 deg C  
Date/Time sample collected: 9/9/2014 11:42 Collected By: Alan Adin  
Date/Time sample received: 9/9/2014 14:30 Received by: Karolina  
Date/Time sample analyzed: 9/9/2014 17:00 Tech: SS

Parameter	Test Result*	Units	Test Method
Fecal Coliform	70	CFU/100mL	SM 18 9222D

\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

13-Sep-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

**Client Project Name:** Rondout Creek  
**Sample Type:** Surface Water  
**Order comment:**  
**Order ID:** 124289

**Sample Number:** 221915  
**Sample Location:** Site #2, grab  
**Sample Comment:** FC rec'd at 6.4 deg C  
**Date/Time sample collected:** 9/9/2014 11:55  
**Date/Time sample received:** 9/9/2014 14:30  
**Date/Time sample analyzed:** 9/9/2014 17:00

**Collected By:** Alan Adin  
**Received by:** Karolina  
**Tech:** SS

Parameter	Test Result*	Units	Test Method
Fecal Coliform	20	CFU/100mL	SM 1B 9222D

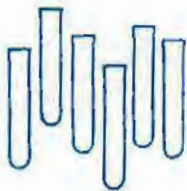
\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

13-Sep-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office

Attn: Alan Adin

420 Broadway

Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek

**Sample Type:** Surface Water

**Order comment:**

**Order ID:** 124289

---

**Sample Number:** 221916

**Sample Location:** Site #3, grab

**Sample Comment:** FC rec'd at 10.3 deg C

**Date/Time sample collected:** 9/9/2014 12:02

**Collected By:** Alan Adin

**Date/Time sample received:** 9/9/2014 14:30

**Received by:** Karolina

**Date/Time sample analyzed:** 9/9/2014 17:00

**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	30	CFU/100mL	SM 18 9222D

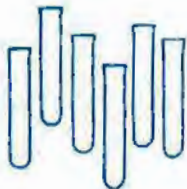
\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

13-Sep-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek  
**Sample Type:** Surface Water  
**Order comment:**  
**Order ID:** 124289

---

**Sample Number:** 221917  
**Sample Location:** Site #4, grab  
**Sample Comment:** FC rec'd at 10.7 deg C  
**Date/Time sample collected:** 9/9/2014 12:10  
**Date/Time sample received:** 9/9/2014 14:30  
**Date/Time sample analyzed:** 9/9/2014 17:00

**Collected By:** Alan Adin  
**Received by:** Karolina  
**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	40	CFU/100mL	SM 18 9222D

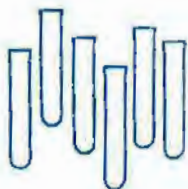
\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

13-Sep-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office

Attn: Alan Adin

420 Broadway

Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek

**Sample Type:** Surface Water

**Order comment:**

**Order ID:** 124289

---

**Sample Number:** 221918

**Sample Location:** Site #5, grab

**Sample Comment:** FC rec'd at 8.3 deg C

**Date/Time sample collected:** 9/9/2014 12:18

**Collected By:** Alan Adin

**Date/Time sample received:** 9/9/2014 14:30

**Received by:** Karolina

**Date/Time sample analyzed:** 9/9/2014 17:00

**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	40	CFU/100mL	SM 16 9222D

\*Bacteriological test results are expressed as Colony Forming Units.

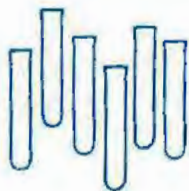
**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

13-Sep-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-8536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek  
**Sample Type:** Surface Water  
**Order comment:**  
**Order ID:** 124289

---

**Sample Number:** 221919  
**Sample Location:** Site #6, grab  
**Sample Comment:** FC rec'd at 9.3 deg C  
**Date/Time sample collected:** 9/9/2014 12:07  
**Date/Time sample received:** 9/9/2014 14:30  
**Date/Time sample analyzed:** 9/9/2014 17:00

**Collected By:** Alan Adin  
**Received by:** Karolina  
**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	10	CFU/100mL	SM 18 9222D

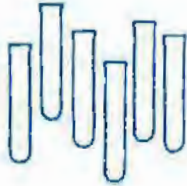
\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

13-Sep-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6538

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek  
**Sample Type:** Surface Water  
**Order comment:**  
**Order ID:** 124289

---

**Sample Number:** 221920  
**Sample Location:** Site #7, grab  
**Sample Comment:** FC rec'd at 15.1 deg C  
**Date/Time sample collected:** 9/9/2014 12:50  
**Date/Time sample received:** 9/9/2014 14:30  
**Date/Time sample analyzed:** 9/9/2014 17:00

**Collected By:** Alan Adin  
**Received by:** Karolina  
**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	< 10	CFU/100mL	SM 18 9222D

---

\*Bacteriological test results are expressed as Colony Forming Units.

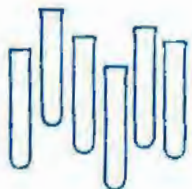
**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

13-Sep-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-8536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek  
**Sample Type:** Surface Water  
**Order comment:**  
**Order ID:** 124289

---

**Sample Number:** 221921  
**Sample Location:** Duplicate, Site #7, grab  
**Sample Comment:** FC rec'd at 15.8 deg C  
**Date/Time sample collected:** 9/9/2014 12:50  
**Date/Time sample received:** 9/9/2014 14:30  
**Date/Time sample analyzed:** 9/9/2014 17:00

**Collected By:** Alan Adin  
**Received by:** Karolina  
**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	< 10	CFU/100mL	SM 18 9222D

---

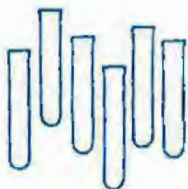
\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

13-Sep-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office

Attn: Alan Adin

420 Broadway

Kingston

NY 12401

PO #

**Client Project Name:** Rondout Creek

**Sample Type:** Water

**Order comment:**

**Order ID:** 124289

**Sample Number:** 221922

**Sample Location:** Blank QC

**Sample Comment:** 100 mL buffered rinse water used

**Date/Time sample collected:** 9/9/2014 17:00

**Collected By:**

**Date/Time sample received:** 9/9/2014 17:00

**Received by:** Karolina

**Date/Time sample analyzed:** 9/9/2014 17:00

**Tech:** SS

Parameter	Test Result*	Units	Test Method
Fecal Coliform	< 1	CFU/100mL	SM 18 9222D

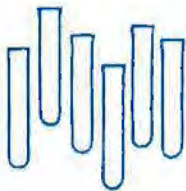
\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

13-Sep-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office

Attn: Alan Adin

420 Broadway

Kingston

NY 12401

PO #

**Sample Type:** Surface Water

**Client Project Name:** Rondout Creek

**Order comment:**

**Order ID:** 124289 **Sample Number:** 221914

**Sample Location:** Site #1, grab

**Date/Time sample collected:** 9/9/2014 11:42

**Sample Collected By:** Alan Adin

**Date/Time samples received:** 9/9/2014 14:30

**Sample Received by:** Karolina

**Sample Comment:** FC rec'd at 8.3 deg C

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Solids, Settleable	< 0.1	mL/L	SM20 2540F	9/9/2014	15:10	SW
Total Suspended Solids	2	mg/L	SM20 2540 D	9/10/2014		SW

**Order ID:** 124289 **Sample Number:** 221915

**Sample Location:** Site #2, grab

**Date/Time sample collected:** 9/9/2014 11:55

**Sample Collected By:** Alan Adin

**Date/Time samples received:** 9/9/2014 14:30

**Sample Received by:** Karolina

**Sample Comment:** FC rec'd at 6.4 deg C

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Solids, Settleable	< 0.1	mL/L	SM20 2540F	9/9/2014	15:10	SW
Total Suspended Solids	2	mg/L	SM20 2540 D	9/10/2014		SW

**Order ID:** 124289 **Sample Number:** 221916

**Sample Location:** Site #3, grab

**Date/Time sample collected:** 9/9/2014 12:02

**Sample Collected By:** Alan Adin

**Date/Time samples received:** 9/9/2014 14:30

**Sample Received by:** Karolina

**Sample Comment:** FC rec'd at 10.3 deg C

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Solids, Settleable	< 0.1	mL/L	SM20 2540F	9/9/2014	15:10	SW
Total Suspended Solids	2	mg/L	SM20 2540 D	9/10/2014		SW

**Order ID:** 124289 **Sample Number:** 221917

**Sample Location:** Site #4, grab

**Date/Time sample collected:** 9/9/2014 12:10

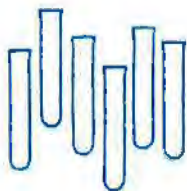
**Sample Collected By:** Alan Adin

**Date/Time samples received:** 9/9/2014 14:30

**Sample Received by:** Karolina

**Sample Comment:** FC rec'd at 10.7 deg C

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Solids, Settleable	< 0.1	mL/L	SM20 2540F	9/9/2014	15:10	SW
Total Suspended Solids	5	mg/L	SM20 2540 D	9/10/2014		SW



# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-8536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

**Order ID:** 124289      **Sample Number:** 221918  
**Sample Location:** Site #5, grab  
**Date/Time sample collected:** 9/9/2014 12:18      **Sample Collected By:** Alan Adin  
**Date/Time samples received:** 9/9/2014 14:30      **Sample Received by:** Karolina  
**Sample Comment:** FC rec'd at 8.3 deg C

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Solids, Settleable	< 0.1	mL/L	SM20 2540F	9/9/2014	15:10	SW
Total Suspended Solids	2	mg/L	SM20 2540 D	9/10/2014		SW

---

**Order ID:** 124289      **Sample Number:** 221919  
**Sample Location:** Site #6, grab  
**Date/Time sample collected:** 9/9/2014 12:07      **Sample Collected By:** Alan Adin  
**Date/Time samples received:** 9/9/2014 14:30      **Sample Received by:** Karolina  
**Sample Comment:** FC rec'd at 9.3 deg C

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Solids, Settleable	< 0.1	mL/L	SM20 2540F	9/9/2014	15:10	SW
Total Suspended Solids	2	mg/L	SM20 2540 D	9/10/2014		SW

---

**Order ID:** 124289      **Sample Number:** 221920  
**Sample Location:** Site #7, grab  
**Date/Time sample collected:** 9/9/2014 12:50      **Sample Collected By:** Alan Adin  
**Date/Time samples received:** 9/9/2014 14:30      **Sample Received by:** Karolina  
**Sample Comment:** FC rec'd at 15.1 deg C

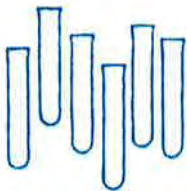
Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Solids, Settleable	< 0.1	mL/L	SM20 2540F	9/9/2014	15:10	SW
Total Suspended Solids	< 1	mg/L	SM20 2540 D	9/10/2014		SW

---

**Order ID:** 124289      **Sample Number:** 221921  
**Sample Location:** Duplicate, Site #7, grab  
**Date/Time sample collected:** 9/9/2014 12:50      **Sample Collected By:** Alan Adin  
**Date/Time samples received:** 9/9/2014 14:30      **Sample Received by:** Karolina  
**Sample Comment:** FC rec'd at 15.6 deg C

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Solids, Settleable	< 0.1	mL/L	SM20 2540F	9/9/2014	15:10	SW
Total Suspended Solids	2	mg/L	SM20 2540 D	9/10/2014		SW

---



# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

Order ID: 124289 Sample Number: 221922

Sample Location: Blank QC

Date/Time sample collected: 9/9/2014 17:00

Sample Collected By:

Date/Time samples received: 9/9/2014 17:00

Sample Received by: Karolina

Sample Comment: 100 mL buffered rinse water used

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Solids, Settleable	< 0.1	mL/L	SM20 2540F	9/9/2014	15:10	SW
Total Suspended Solids	< 1	mg/L	SM20 2540 D	9/10/2014		SW

Results Comment:

Reviewed by: Laboratory Manager, ELAP Lab ID #10924

03-Oct-14

Key: < = less than; A=Analysis performed over holding time; C=degrees Celsius; B=BOD blank depletion was greater than 0.2 mg/L; D=Elevated reporting limit; Est=Estimated Value; H=Sample received over analysis holding time; J=Result estimated below quantitation limit; MCL=New York State Maximum Contaminant Level; MDL=Method Detection Limit; mg/kg=milligrams per kilogram dry weight; mg/L=milligrams per Liter; mL/L=milliliters per Liter; ND=Not Detected; NTU=Nephelometric Turbidity Units; PtCo=Platinum Cobalt Units; Q=Not all QC data met acceptance criteria; SI = Saturation Index; SU=Standard pH Units; TON=Threshold Odor Number at 44.5 degrees C; ug/L-micrograms per Liter; umho/cm=micromhos per centimeter; V=Value above quantitation range; \*ELAP/NELAC does not offer certification for this analyte; \*\*ELAP ID is listed for sub-contract laboratory

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Total number of pages in this report, including chain of custody, is 4



<b>SMITH LABORATORY</b> 4 Scenic Drive Hyde Park, NY 12538-1313 Phone: 845-229-6536 Fax: 845-229-6538		<b>CHAIN OF CUSTODY</b>		Login Review: <u>8</u>	
				Amt Due:	
				Amt Paid:	
				Pmt Method:	
				Receipt No:	
Turnaround Time: Standard <input checked="" type="checkbox"/> <b>RUSH</b> <input type="checkbox"/> (Rush surcharge applies) ** Date report requested: _____		Copy results to Local Health Dept. Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>			

Client Name: CITY OF KINGSTON Client Phone No: 845-334-3968 Project/Facility Name: RONDOUT CREEK  
 Mailing Address: 420 BROADWAY Client Email: aadin@kingston-ny.gov Location: \_\_\_\_\_  
KINGSTON, NY 12401 Copy Report To: RALPH SWENSON PWS Fed ID No: NY-

LAB USE ONLY		CLIENT: COMPLETE THE SAMPLE INFORMATION IN THE SPACE PROVIDED BELOW								LAB USE ONLY		
Order ID No: <u>124689</u> Sample No:	Sample Identification & Sample Point	Matrix	(Check One)			Treatment Type & Residual	Date/Time Sampled	Analysis Requested	Container & Preservative	Iced Y/N	Sample Temp, Deg C	Pres. at Lab Y/N
			Grab	Comp # hrs	First Draw							
<u>2219149</u>	SITE #1	SW	X				<u>11:42A</u>	SS TSS	1-1LPLAS 1-1/2 L PLAS	<u>10.2</u>	<u>7.5</u>	<u>X</u>
<u>221915</u>	SITE #2	SW	X				<u>11:55A</u>	SS TSS	1-1LPLAS 1-1/2 L PLAS	<u>12.1</u>	<u>12.0</u>	
<u>221916</u>	SITE #3	SW	X				<u>12:02P</u>	SS TSS	1-1LPLAS 1-1/2 L PLAS	<u>8.4</u>	<u>9.3</u>	
<u>221917</u>	SITE #4	SW	X				<u>12:10P</u>	SS TSS	1-1LPLAS 1-1/2 L PLAS	<u>7.5</u>	<u>8.1</u>	
<u>221918</u>	SITE #5	SW	X				<u>12:18P</u>	SS TSS	1-1LPLAS 1-1/2 L PLAS	<u>8.0</u>	<u>7.5</u>	
<u>221919</u>	SITE #6	SW	X				<u>12:07P</u>	SS TSS	1-1LPLAS 1-1/2 L PLAS	<u>7.8</u>	<u>13.0</u>	
<u>221920</u>	SITE #7	SW	X				<u>12:50P</u>	SS TSS	1-1LPLAS 1-1/2 L PLAS	<u>19.2</u>	<u>11.2</u>	
<u>221921</u>	DUPLICATE SITE #7	SW	X				<u>12:50P</u>	SS TSS	1-1LPLAS 1-1/2 L PLAS	<u>18.1</u>	<u>11.6</u>	
<u>221922</u>	QC Blank											

Sampled By: (Name) ALAN ADIN (Title) ENGINEERING TECH I hereby affirm that the information above is true and complete to the best of my knowledge. I also affirm that I am responsible for payment, unless other payment arrangements are approved in advance by Smith Laboratory.

Sample Relinquished By: ALAN ADIN Received By: \_\_\_\_\_ Date: 9/9/14 Time: 1430  
 Sample Relinquished By: \_\_\_\_\_ Received at Lab By: [Signature] Date: \_\_\_\_\_ Time: \_\_\_\_\_

Sample(s) received met the following requirements Thermal Preservation: <u>NA</u> Yes No Chemical Preservation: <u>NA</u> Yes No Correct Bottle Type <u>Yes</u> No Other _____	Comments: _____ _____ _____ _____
--	--

Attachment 1 - Sampling Event Summary Sheet

EVENT # 24, DRY WEATHER

Initials:

AA

Date: 9.19.14

Page \_\_\_ of \_\_\_

Sampling Team:

A. Adin / C. SCHEFFEL

Weather:

CLEAR - COOL

Temperature:

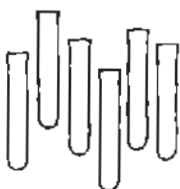
HIGH 50°

Direction of Flow:

START IN WESTERLY

HIGH TIDE 10:57A.

Sampling Location	Time	Field Parameter	Physical Observations	Comments
SITE #1: MID-RODONT CREEK APPROX. 250 YDS UPSTREAM OF WILBUR AVE. OUTFALL	LATITUDE: 41.906 LONGITUDE: 74.004 10:20A	DO 8.1 mg/L temperature 20.7°C	Grease none Floatables none Odors none	TIDE: 14 - WESTERLY APPROX. 15 YDS WESTERLY OF FEEVEY DRY DOCK AT PROPERTY BOUNDARY BETWEEN FEEVEY AND RECYCLING BUSINESS
SITE #2: MID-RODONT CREEK - UPSTREAM OF BLOCK PARK	LAT: 41.912 LONG: 73.992 10:30A	DO 8.7 mg/L temperature 19.6°C	Grease none Floatables none Odors none	TIDE: 14 - WESTERLY 50 YDS SOUTHERLY OF ISLAND DOCK CAUSEWAY CULVERTS
SITE #3: MID-RODONT CREEK APPROX. 150 YDS UPSTREAM OF OLD BRIDGE	LAT: 41.915 LONG: 73.984 10:39A	DO 8.9 mg/L temperature 19.8°C	Grease none Floatables none Odors none	TIDE: 14 - WESTERLY 25 YDS SOUTHERLY OF OLD STEEL BOILER PROTRUDING FROM WATER NEAR ISLAND DOCK BULKHEAD
SITE #6: MID-RODONT CREEK UNDER NEW BRIDGE	LAT: 41.915 LONG: 73.981 10:44A	DO 8.8 mg/L temperature 19.8°C	Grease none Floatables none Odors none	TIDE: 14 - WESTERLY 50 YDS SOUTHERLY OF CLEARWATER MAINTENANCE SHED, DOUBLE SLIDE DOORS
SITE #4: MID-RODONT CREEK APPROX. 200 YDS DOWNSTREAM OF NEW BRIDGE	LAT: 41.913 LONG: 73.974 10:49A	DO 8.7 mg/L temperature 20.0°C	Grease none Floatables none Odors none	TIDE: 14 - WESTERLY 50 YDS SOUTHERLY OF STEELHOUSE RESTAURANT COVER PATIO
SITE #5: MID-RODONT CREEK UPSTREAM OF BLOCK PARK	LAT: 41.922 LONG: 73.964 10:54A	DO 8.5 mg/L temperature 20.2°C	Grease none Floatables MINOR Odors none	TIDE: 14 - WESTERLY 50 YDS SOUTHERLY CROSSING WARMIN vegetative
SITE #7: MID-RODONT CREEK APPROX. 3/4 MILE UPSTREAM OF EDDYVILLE DAM AT NYSDEC BOAT LAUNCH	LAT: 41.985 LONG: 74.030 11:29A	DO 6.8 mg/L temperature 19.6°C	Grease none Floatables none Odors none	FLOW: ALWAYS EASTER NOT TIDAL. STRAIGHT END BOAT LAUNCH
DUPPLICATE	LAT: SITE #7 LONG: 11:25A	DO temperature	Grease Floatables Odors	SITE #7 GAS LINE IGN. water none S/ brown/ turbid. DOWNSTREAM - LOCATION T FROM WESTERLY



# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-8538

## CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

Client Project Name: Rondout Creek  
Sample Type: Surface Water  
Order comment:  
Order ID: 124632

Sample Number: 222755  
Sample Location: Site #1, grab  
Sample Comment: FC rec'd at 9.8 deg C.  
Date/Time sample collected: 9/19/2014 10:20 Collected By: AA  
Date/Time sample received: 9/19/2014 12:40 Received by: Amy Jo  
Date/Time sample analyzed: 9/19/2014 15:15 Tech: SS

Parameter	Test Result*	Units	Test Method
Fecal Coliform	10	CFU/100mL	SM 18 9222D

\*Bacteriological test results are expressed as Colony Forming Units.

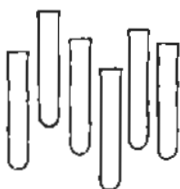
Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

23-Sep-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office

Attn: Alan Adin

420 Broadway

Kingston

NY 12401

PO #

**Client Project Name:** Rondout Creek

**Sample Type:** Surface Water

**Order comment:**

**Order ID:** 124632

**Sample Number:** 222756

**Sample Location:** Site #2, grab

**Sample Comment:** FC rec'd at 9.4 deg C.

**Date/Time sample collected:** 9/19/2014 10:30

**Collected By:** AA

**Date/Time sample received:** 9/19/2014 12:40

**Received by:** Amy Jo

**Date/Time sample analyzed:** 9/19/2014 15:15

**Tech:** SS

Parameter	Test Result*	Units	Test Method
Fecal Coliform	20	CFU/100mL	SM 18 9222D

\*Bacteriological test results are expressed as Colony Forming Units

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

23-Sep-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek  
**Sample Type:** Surface Water  
**Order comment:**  
**Order ID:** 124632

---

**Sample Number:** 222757  
**Sample Location:** Site #3, grab  
**Sample Comment:** FC rec'd at 7.4 deg C.  
**Date/Time sample collected:** 9/19/2014 10:39  
**Date/Time sample received:** 9/19/2014 12:40  
**Date/Time sample analyzed:** 9/19/2014 15:15

**Collected By:** AA  
**Received by:** Amy Jo  
**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	350	CFU/100mL	SM 18 9222D

---

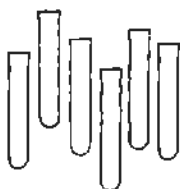
\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

23-Sep-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek  
**Sample Type:** Surface Water  
**Order comment:**  
**Order ID:** 124632

---

**Sample Number:** 222758  
**Sample Location:** Site #4, grab  
**Sample Comment:** FC rec'd at 9.2 deg C.  
**Date/Time sample collected:** 9/19/2014 10:49  
**Date/Time sample received:** 9/19/2014 12:40  
**Date/Time sample analyzed:** 9/19/2014 15:15

**Collected By:** AA  
**Received by:** Amy Jo  
**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	10	CFU/100mL	SM 18 9222D

\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

**Reviewed by:** Lab Manager, ELAP Lab ID #10924

23-Sep-14

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ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-8536

## CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

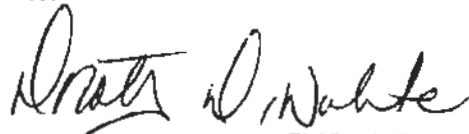
Client Project Name: Rondout Creek  
Sample Type: Surface Water  
Order comment:  
Order ID: 124632

Sample Number: 222759  
Sample Location: Site #5, grab  
Sample Comment: FC rec'd at 9.4 deg C.  
Date/Time sample collected: 9/19/2014 10:54 Collected By: AA  
Date/Time sample received: 9/19/2014 12:40 Received by: Amy Jo  
Date/Time sample analyzed: 9/19/2014 15:15 Tech: SS

Parameter	Test Result*	Units	Test Method
Fecal Coliform	40	CFU/100mL	SM 18 9222D

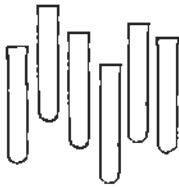
\*Bacteriological test results are expressed as Colony Forming Units

Results Comment:

  
Reviewed by: Lab Manager, ELAP Lab ID #10924

25-Sep-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-8538

## CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

Client Project Name: Rondout Creek  
Sample Type: Surface Water  
Order comment:  
Order ID: 124632

---

Sample Number: 222760  
Sample Location: Site #6, grab  
Sample Comment: FC rec'd at 7.9 deg C.  
Date/Time sample collected: 9/19/2014 10:44 Collected By: AA  
Date/Time sample received: 9/19/2014 12:40 Received by: Amy Jo  
Date/Time sample analyzed: 9/19/2014 15:15 Tech: SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	20	CFU/100mL	SM 18 9222D

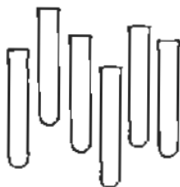
\*Bacteriological test results are expressed as Colony Forming Units.

Results Comment:

Reviewed by: Lab Manager, ELAP Lab ID #10924

23-Sep-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek  
**Sample Type:** Surface Water  
**Order comment:**  
**Order ID:** 124632

---

**Sample Number:** 222761  
**Sample Location:** Site #7, grab  
**Sample Comment:** FC rec'd at 11.7 deg C.  
**Date/Time sample collected:** 9/19/2014 11:28  
**Date/Time sample received:** 9/19/2014 12:40  
**Date/Time sample analyzed:** 9/19/2014 15:15

**Collected By:** AA  
**Received by:** Amy Jo  
**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	< 10	CFU/100mL	SM 18 9222D

---

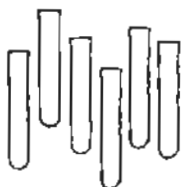
\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

23-Sep-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 228-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek  
**Sample Type:** Surface Water  
**Order comment:**  
**Order ID:** 124632

---

**Sample Number:** 222762  
**Sample Location:** Duplicate, grab  
**Sample Comment:** FC rec'd at 15.4 deg C.  
**Date/Time sample collected:** 9/19/2014 11:28  
**Date/Time sample received:** 9/19/2014 12:40  
**Date/Time sample analyzed:** 9/19/2014 15:15

**Collected By:** AA  
**Received by:** Amy Jo  
**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	< 10	CFU/100mL	SM 18 9222D

\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

23-Sep-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-8538

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek  
**Sample Type:** Water  
**Order comment:**  
**Order ID:** 124632

---

**Sample Number:** 222763  
**Sample Location:** Blank-QC  
**Sample Comment:** 100 mL buffered rinse water used  
**Date/Time sample collected:** 9/19/2014 15:15  
**Date/Time sample received:** 9/19/2014 15:15  
**Date/Time sample analyzed:** 9/19/2014 15:15

**Collected By:**  
**Received by:** Amy Jo  
**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	< 1	CFU/100mL	SM 18 9222D

---

\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

**Reviewed by:** Lab Manager, ELAP Lab ID #10924

23-Sep-14

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ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-8536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office

Attn: Alan Adin

420 Broadway

Kingston

NY 12401

PO #

**Sample Type:** Surface Water

**Client Project Name:** Rondout Creek

**Order comment:**

**Order ID:** 124632 **Sample Number:** 222755

**Sample Location:** Site #1, grab

**Date/Time sample collected:** 9/19/2014 10:20

**Sample Collected By:** AA

**Date/Time samples received:** 9/19/2014 12:40

**Sample Received by:** Amy Jo

**Sample Comment:** FC rec'd at 9.8 deg C.

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Solids, Settleable	< 0.1	mL/L	SM20 2540F	9/19/2014	13:50	SW
Total Suspended Solids	6	mg/L	SM20 2540 D	9/24/2014		SW

**Order ID:** 124632 **Sample Number:** 222756

**Sample Location:** Site #2, grab

**Date/Time sample collected:** 9/19/2014 10:30

**Sample Collected By:** AA

**Date/Time samples received:** 9/19/2014 12:40

**Sample Received by:** Amy Jo

**Sample Comment:** FC rec'd at 9.4 deg C.

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Solids, Settleable	< 0.1	mL/L	SM20 2540F	9/19/2014	13:50	SW
Total Suspended Solids	8	mg/L	SM20 2540 D	9/24/2014		SW

**Order ID:** 124632 **Sample Number:** 222757

**Sample Location:** Site #3, grab

**Date/Time sample collected:** 9/19/2014 10:39

**Sample Collected By:** AA

**Date/Time samples received:** 9/19/2014 12:40

**Sample Received by:** Amy Jo

**Sample Comment:** FC rec'd at 7.4 deg C.

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Solids, Settleable	< 0.1	mL/L	SM20 2540F	9/19/2014	13:50	SW
Total Suspended Solids	8	mg/L	SM20 2540 D	9/24/2014		SW

**Order ID:** 124632 **Sample Number:** 222758

**Sample Location:** Site #4, grab

**Date/Time sample collected:** 9/19/2014 10:49

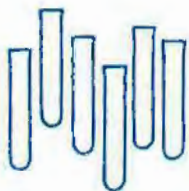
**Sample Collected By:** AA

**Date/Time samples received:** 9/19/2014 12:40

**Sample Received by:** Amy Jo

**Sample Comment:** FC rec'd at 9.2 deg C.

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Solids, Settleable	< 0.1	mL/L	SM20 2540F	9/19/2014	13:50	SW
Total Suspended Solids	8	mg/L	SM20 2540 D	9/24/2014		SW



# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

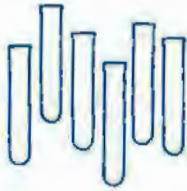
PO #

Order ID: 124632 Sample Number: 222759  
Sample Location: Site #5, grab  
Date/Time sample collected: 9/19/2014 10:54 Sample Collected By: AA  
Date/Time samples received: 9/19/2014 12:40 Sample Received by: Amy Jo  
Sample Comment: FC rec'd at 9.4 deg C.  
Parameter: Test Result Units Test Method Test Date Test Time Tech\*\*  
Solids, Settleable < 0.1 mL/L SM20 2540F 9/19/2014 13:50 SW  
Total Suspended Solids 9 mg/L SM20 2540 D 9/24/2014 SW

Order ID: 124632 Sample Number: 222760  
Sample Location: Site #6, grab  
Date/Time sample collected: 9/19/2014 10:44 Sample Collected By: AA  
Date/Time samples received: 9/19/2014 12:40 Sample Received by: Amy Jo  
Sample Comment: FC rec'd at 7.9 deg C.  
Parameter: Test Result Units Test Method Test Date Test Time Tech\*\*  
Solids, Settleable < 0.1 mL/L SM20 2540F 9/19/2014 13:50 SW  
Total Suspended Solids 3 mg/L SM20 2540 D 9/24/2014 SW

Order ID: 124632 Sample Number: 222761  
Sample Location: Site #7, grab  
Date/Time sample collected: 9/19/2014 11:28 Sample Collected By: AA  
Date/Time samples received: 9/19/2014 12:40 Sample Received by: Amy Jo  
Sample Comment: FC rec'd at 11.7 deg C.  
Parameter: Test Result Units Test Method Test Date Test Time Tech\*\*  
Solids, Settleable < 0.1 mL/L SM20 2540F 9/19/2014 13:50 SW  
Total Suspended Solids 8 mg/L SM20 2540 D 9/24/2014 SW

Order ID: 124632 Sample Number: 222762  
Sample Location: Duplicate, grab  
Date/Time sample collected: 9/19/2014 11:28 Sample Collected By: AA  
Date/Time samples received: 9/19/2014 12:40 Sample Received by: Amy Jo  
Sample Comment: FC rec'd at 15.4 deg C.  
Parameter: Test Result Units Test Method Test Date Test Time Tech\*\*  
Solids, Settleable < 0.1 mL/L SM20 2540F 9/19/2014 13:50 SW  
Total Suspended Solids 4 mg/L SM20 2540 D 9/24/2014 SW



# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-8538

## CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

Order ID: 124632 Sample Number: 222763  
Sample Location: Blank-QC  
Date/Time sample collected: 9/19/2014 15:15 Sample Collected By:  
Date/Time samples received: 9/19/2014 15:15 Sample Received by: Amy Jo  
Sample Comment: 100 mL buffered rinse water used

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Solids, Settleable	< 0.1	mL/L	SM20 2540F	9/19/2014	13:50	SW
Total Suspended Solids	< 1	mg/L	SM20 2540 D	9/24/2014		SW

Results Comment:

Reviewed by: Laboratory Manager, ELAP Lab ID #10924

22-Oct-14

Key: < = less than; A=Analysis performed over holding time; C=degrees Celsius; B=BOD blank depletion was greater than 0.2 mg/L; D=Elevated reporting limit; Est=Estimated Value; H=Sample received over analysis holding time; J=Result estimated below quantitation limit; MCL=New York State Maximum Contaminant Level; MDL=Method Detection Limit; mg/kg=milligrams per kilogram dry weight; mg/L=milligrams per Liter; mL/L=milliliters per Liter; ND=Not Detected; NTU=Nephelometric Turbidity Units; PtCo=Platinum Cobalt Units; Q=Not all QC data met acceptance criteria; SI = Saturation Index; SU=Standard pH Units; TON=Threshold Odor Number at 44.5 degrees C; ug/L-micrograms per Liter; umho/cm=micromhos per centimeter; V=Value above quantitation range; \*ELAP/NELAC does not offer certification for this analyte; \*\*ELAP ID is listed for sub-contract laboratory

*Smith Laboratory is approved as an Environmental Testing Laboratory in conformance with the National Environmental Laboratory Accreditation Conference (NELAC) Standards. This test report pertains only to the above items analyzed on this sample as received by the laboratory. Information supplied by the client is assumed to be correct.*

Total number of pages in this report, including chain of custody, is 4



## SMITH LABORATORY

4 Scenic Drive

Hyde Park, NY 12538-1313

Phone: 845-229-6536

Fax: 845-229-6538

## CHAIN OF CUSTODY

 Turnaround Time: Standard ☒  
 RUSH ☐ (Rush surcharge applies)  
 \*\* Date report requested:

 Copy results to  
 Local Health Dept.  
 Yes ☐ No ☒

Login Review:

Amt Due:

Amt Paid:

Pmt Method:

Receipt No:

Client Name: CITY OF KINGSTON

Client Phone No: 845-334-3968 Project/Facility Name: RONDOUT CREEK

Mailing Address: 420 BROADWAY

Client Email: aadin@kingston-ny.gov Location:

KINGSTON, NY 12401

Copy Report To: RALPH SWENSON PWS Fed ID No: NY-

## LAB USE ONLY

## CLIENT: COMPLETE THE SAMPLE INFORMATION IN THE SPACE PROVIDED BELOW

## LAB USE ONLY

Order ID No: Sample No:	Sample Identification & Sample Point	Matrix	(Check One)			Treatment Type & Residual	Date/Time Sampled	Analysis Requested	Container & Preservative	Iced Y/N	Sample Temp, Deg C	Pres. at Lab Y/N
			Grab	Comp # hrs	First Draw							
124632							9-19-14					
222755A/B	SITE #1	SW	X				10:20A	SS TSS	1-1LPLAS 1-1/2 L PLAS	4	16.6/16.6	N
756	SITE #2	SW	X				10:30A	SS TSS	1-1LPLAS 1-1/2 L PLAS		12.1/11.1	
757	SITE #3	SW	X				10:39A	SS TSS	1-1LPLAS 1-1/2 L PLAS		13.9/13.1	
758	SITE #4	SW	X				10:49A	SS TSS	1-1LPLAS 1-1/2 L PLAS		10.3/8.3	
759	SITE #5	SW	X				10:54A	SS TSS	1-1LPLAS 1-1/2 L PLAS		14.8/13.6	
760	SITE #6	SW	X				10:44A	SS TSS	1-1LPLAS 1-1/2 L PLAS		8.9/6.9	
761	SITE #7	SW	X				11:28A	SS TSS	1-1LPLAS 1-1/2 L PLAS		15.0/17.8	
762	DUPLICATE	SW	X				11:28A	SS TSS	1-1LPLAS 1-1/2 L PLAS		16.5/12.9	
222763	Lab Blank											

Sampled By: (Name) ALAN ADIN (Title) ENGINEERING TECH. I hereby affirm that the information above is true and complete to the best of my knowledge. I also affirm that I am responsible for payment, unless other payment arrangements are approved in advance by Smith Laboratory.

Sample Relinquished By: ALAN ADIN

Received By:

Date: Time:

Sample Relinquished By:

Received at Lab By:

Date: 9/19/14 Time: 1240

Sample(s) received met the following requirements

Thermal Preservation: NA Yes No

Chemical Preservation: NA Yes No

Correct Bottle Type Yes No

Other

Comments:

Initials:

AA

Date: 9-24-14

Page \_\_\_ of \_\_\_

Sampling Team:

A. Adair / C. Schreffel

Weather:

partly sunny

Temperature:

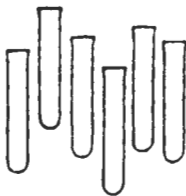
low 70s

Direction of Flow:

IN WESTERLY

HIGH TIDE 2:22 P

Sampling Location	Time	Field Parameter	Physical Observations	Comments
SITE #1: MID-ROUND CREEK APPROX. 250 YDS UPSTREAM OF WILBUR AVE. OUTFALL	LATITUDE: 41.906 LONGITUDE: 74.004 1:00P	DO 9.7 mg/L temperature 21.3°C	Grease NONE Floatables NONE Odors NONE	TIDE: IN WESTERLY APPROX. 15 YDS WESTERLY OF FEEVEY DRY DOCK AT PROPERTY BOUNDARY BETWEEN FEEVEY AND RECYCLING BUSINESS
SITE #2: MID-ROUND CREEK - UPSTREAM OF BLOCK PARK	LAT: 41.912 LONG: 73.992 1:12P	DO 10.1 mg/L temperature 20.7°C	Grease NONE Floatables NONE Odors NONE	TIDE: IN WESTERLY 50 YDS SOUTHERLY OF ISLAND DOCK CAUSEWAY CULVERTS
SITE #3: MID-ROUND CREEK APPROX. 150 YDS UPSTREAM OF OLD BRIDGE	LAT: 41.915 LONG: 73.954 1:17P.M.	DO 9.4 mg/L temperature 20.3°C	Grease NONE Floatables NONE Odors NONE	TIDE: IN WESTERLY 25 YDS SOUTHERLY OF OLD STEEL BOILER PROTRUDING FROM WATER NEAR ISLAND DOCK BULKHEAD
SITE #6: MID-ROUND CREEK UNDER NEW BRIDGE	LAT: 41.915 LONG: 73.951 1:22P	DO 8.8 mg/L temperature 20.4°C	Grease NONE Floatables NONE Odors NONE	TIDE: IN WESTERLY 50 YDS SOUTHERLY OF CLEARWATER MAINTENANCE SHED, DOUBLE SLIDE DOORS
SITE #4: MID-ROUND CREEK APPROX. 200 YDS DOWNSTREAM OF NEW BRIDGE	LAT: 41.913 LONG: 73.979 1:24P	DO 8.6 mg/L temperature 20.4°C	Grease NONE Floatables MINIMAL Odors NONE	TIDE: IN WESTERLY 50 YDS SOUTHERLY OF STEELHOUSE RESTAURANT COVERED PATIO MINOR VEGETATIVE MATTER.
SITE #5: MID-ROUND CREEK UPSTREAM OF <del>WILBUR</del> HUDSON CONFLUENCE	LAT: 41.922 LONG: 73.904 1:30P	DO 8.6 mg/L temperature 21.1°C	Grease NONE Floatables minimal Odors NONE	TIDE: IN WESTERLY 50 YDS SOUTHERLY OF 'GAS LINE CROSSING WARNING SIGN Vegetative matter
SITE #7: MID-ROUND CREEK APPROX. 3/4 MILE UPSTREAM OF EDDYVILLE DAM AT NYSDEC BOAT LAUNCH	LAT: 41.885 LONG: 74.030 2:05P	DO 7.6 mg/L temperature 20.8°C	Grease NONE Floatables NONE Odors NONE	FLOW: ALWAYS EASTERLY (DOWNSTREAM) - LOCATION NOT TIDAL. STRAIGHT OUT FROM WESTERLY END BOAT LAUNCH
DUPLICATE SITE #1	LAT: 41.913 LONG: 73.979 2:00P	DO 9.7 mg/L temperature 21.3°C	Grease NONE Floatables NONE Odors NONE	SITE #1



# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office

Attn: Alan Adin

420 Broadway

Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek

**Sample Type:** Surface Water

**Order comment:**

**Order ID:** 124763

---

**Sample Number:** 223118

**Sample Location:** Site #1, grab

**Sample Comment:** FC rec'd at 7.0 deg C.

**Date/Time sample collected:** 9/24/2014 13:00

**Collected By:** AA

**Date/Time sample received:** 9/24/2014 15:00

**Received by:** Amy Jo

**Date/Time sample analyzed:** 9/24/2014 17:20

**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	10	CFU/100mL	SM 18 9222D

\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

30-Sep-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office

Attn: Alan Adin

420 Broadway

Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek

**Sample Type:** Surface Water

**Order comment:**

**Order ID:** 124763

---

**Sample Number:** 223119

**Sample Location:** Site #2, grab

**Sample Comment:** FC rec'd at 8.5 deg C.

**Date/Time sample collected:** 9/24/2014 13:12

**Collected By:** AA

**Date/Time sample received:** 9/24/2014 15:00

**Received by:** Amy Jo

**Date/Time sample analyzed:** 9/24/2014 17:20

**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	< 10	CFU/100mL	SM 18 9222D

\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

30-Sep-14

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(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek  
**Sample Type:** Surface Water  
**Order comment:**  
**Order ID:** 124763

---

**Sample Number:** 223120  
**Sample Location:** Site #3, grab  
**Sample Comment:** FC rec'd at 6.3 deg C.  
**Date/Time sample collected:** 9/24/2014 13:17 **Collected By:** AA  
**Date/Time sample received:** 9/24/2014 15:00 **Received by:** Amy Jo  
**Date/Time sample analyzed:** 9/24/2014 17:20 **Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	40	CFU/100mL	SM 18 9222D

\*Bacteriological test results are expressed as Colony Forming Units.

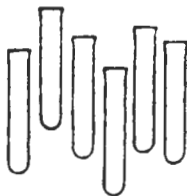
**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

06-Oct-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
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HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office

Attn: Alan Adin

420 Broadway

Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek

**Sample Type:** Surface Water

**Order comment:**

**Order ID:** 124763

---

**Sample Number:** 223121

**Sample Location:** Site #4, grab

**Sample Comment:** FC rec'd at 9.2 deg C.

**Date/Time sample collected:** 9/24/2014 13:24

**Collected By:** AA

**Date/Time sample received:** 9/24/2014 15:00

**Received by:** Amy Jo

**Date/Time sample analyzed:** 9/24/2014 17:20

**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	30	CFU/100mL	SM 18 9222D

\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

30-Sep-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office

Attn: Alan Adin

420 Broadway

Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek

**Sample Type:** Surface Water

**Order comment:**

**Order ID:** 124763

---

**Sample Number:** 223122

**Sample Location:** Site #5, grab

**Sample Comment:** FC rec'd at 12.6 deg C.

**Date/Time sample collected:** 9/24/2014 13:30

**Collected By:** AA

**Date/Time sample received:** 9/24/2014 15:00

**Received by:** Amy Jo

**Date/Time sample analyzed:** 9/24/2014 17:20

**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	10	CFU/100mL	SM 18 9222D

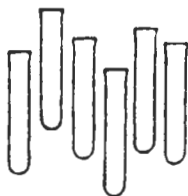
\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

30-Sep-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office

Attn: Alan Adin

420 Broadway

Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek

**Sample Type:** Surface Water

**Order comment:**

**Order ID:** 124763

---

**Sample Number:** 223123

**Sample Location:** Site #6, grab

**Sample Comment:** FC rec'd at 7.3 deg C.

**Date/Time sample collected:** 9/24/2014 13:22

**Collected By:** AA

**Date/Time sample received:** 9/24/2014 15:00

**Received by:** Amy Jo

**Date/Time sample analyzed:** 9/24/2014 17:20

**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	20	CFU/100mL	SM 18 9222D

\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by Lab Manager, ELAP Lab ID #10924

30-Sep-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office

Attn: Alan Adin

420 Broadway

Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek

**Sample Type:** Surface Water

**Order comment:**

**Order ID:** 124763

---

**Sample Number:** 223124

**Sample Location:** Site #7, grab

**Sample Comment:** FC rec'd at 12.8 deg C.

**Date/Time sample collected:** 9/24/2014 14:05

**Collected By:** AA

**Date/Time sample received:** 9/24/2014 15:00

**Received by:** Amy Jo

**Date/Time sample analyzed:** 9/24/2014 17:20

**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	< 10	CFU/100mL	SM 18 9222D

\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

30-Sep-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office

Attn: Alan Adin

420 Broadway

Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek

**Sample Type:** Surface Water

**Order comment:**

**Order ID:** 124763

---

**Sample Number:** 223125

**Sample Location:** Duplicate, Site #1, grab

**Sample Comment:** FC rec'd at 8.4 deg C.

**Date/Time sample collected:** 9/24/2014 13:00

**Collected By:** AA

**Date/Time sample received:** 9/24/2014 15:00

**Received by:** Amy Jo

**Date/Time sample analyzed:** 9/24/2014 17:20

**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	10	CFU/100mL	SM 18 9222D

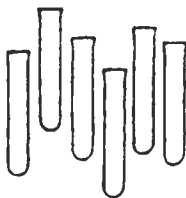
\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

30-Sep-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office

Attn: Alan Adin

420 Broadway

Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek

**Sample Type:** Water

**Order comment:**

**Order ID:** 124763

---

**Sample Number:** 223126

**Sample Location:** Blank QC

**Sample Comment:** 100 mL buffered rinse water used

**Date/Time sample collected:** 9/24/2014 17:20

**Collected By:** AA

**Date/Time sample received:** 9/24/2014 17:20

**Received by:** Amy Jo

**Date/Time sample analyzed:** 9/24/2014 17:20

**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	< 1	CFU/100mL	SM 18 9222D

\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

30-Sep-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
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## CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

Sample Type: Surface Water  
Client Project Name: Rondout Creek  
Order comment:

Order ID: 124763 Sample Number: 223118

Sample Location: Site #1, grab

Date/Time sample collected: 9/24/2014 13:00

Sample Collected By: AA

Date/Time samples received: 9/24/2014 15:00

Sample Received by: Amy Jo

Sample Comment: FC rec'd at 7.0 deg C.

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Solids, Settleable	< 0.1	mL/L	SM20 2540F	9/24/2014	16:20	SW
Total Suspended Solids	4	mg/L	SM20 2540 D	9/26/2014		SW

Order ID: 124763 Sample Number: 223119

Sample Location: Site #2, grab

Date/Time sample collected: 9/24/2014 13:12

Sample Collected By: AA

Date/Time samples received: 9/24/2014 15:00

Sample Received by: Amy Jo

Sample Comment: FC rec'd at 8.5 deg C.

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Solids, Settleable	< 0.1	mL/L	SM20 2540F	9/24/2014	16:20	SW
Total Suspended Solids	4	mg/L	SM20 2540 D	9/26/2014		SW

Order ID: 124763 Sample Number: 223120

Sample Location: Site #3, grab

Date/Time sample collected: 9/24/2014 13:17

Sample Collected By: AA

Date/Time samples received: 9/24/2014 15:00

Sample Received by: Amy Jo

Sample Comment: FC rec'd at 6.3 deg C.

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Solids, Settleable	< 0.1	mL/L	SM20 2540F	9/24/2014	16:20	SW
Total Suspended Solids	7	mg/L	SM20 2540 D	9/26/2014		SW

Order ID: 124763 Sample Number: 223121

Sample Location: Site #4, grab

Date/Time sample collected: 9/24/2014 13:24

Sample Collected By: AA

Date/Time samples received: 9/24/2014 15:00

Sample Received by: Amy Jo

Sample Comment: FC rec'd at 9.2 deg C.

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Solids, Settleable	< 0.1	mL/L	SM20 2540F	9/24/2014	16:20	SW
Total Suspended Solids	7	mg/L	SM20 2540 D	9/26/2014		SW



# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-8536

## CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

Order ID: 124763 Sample Number: 223122  
Sample Location: Site #5, grab  
Date/Time sample collected: 9/24/2014 13:30 Sample Collected By: AA  
Date/Time samples received: 9/24/2014 15:00 Sample Received by: Amy Jo  
Sample Comment: FC rec'd at 12.6 deg C.  
Parameter: Test Result Units Test Method Test Date Test Time Tech\*\*  
Solids, Settleable < 0.1 mL/L SM20 2540F 9/24/2014 16:20 SW  
Total Suspended Solids 8 mg/L SM20 2540 D 9/26/2014 SW

Order ID: 124763 Sample Number: 223123  
Sample Location: Site #6, grab  
Date/Time sample collected: 9/24/2014 13:22 Sample Collected By: AA  
Date/Time samples received: 9/24/2014 15:00 Sample Received by: Amy Jo  
Sample Comment: FC rec'd at 7.3 deg C.  
Parameter: Test Result Units Test Method Test Date Test Time Tech\*\*  
Solids, Settleable < 0.1 mL/L SM20 2540F 9/24/2014 16:20 SW  
Total Suspended Solids 4 mg/L SM20 2540 D 9/26/2014 SW

Order ID: 124763 Sample Number: 223124  
Sample Location: Site #7, grab  
Date/Time sample collected: 9/24/2014 14:05 Sample Collected By: AA  
Date/Time samples received: 9/24/2014 15:00 Sample Received by: Amy Jo  
Sample Comment: FC rec'd at 12.8 deg C.  
Parameter: Test Result Units Test Method Test Date Test Time Tech\*\*  
Solids, Settleable < 0.1 mL/L SM20 2540F 9/24/2014 16:20 SW  
Total Suspended Solids 3 mg/L SM20 2540 D 9/26/2014 SW

Order ID: 124763 Sample Number: 223125  
Sample Location: Duplicate, Site #1, grab  
Date/Time sample collected: 9/24/2014 13:00 Sample Collected By: AA  
Date/Time samples received: 9/24/2014 15:00 Sample Received by: Amy Jo  
Sample Comment: FC rec'd at 8.4 deg C.  
Parameter: Test Result Units Test Method Test Date Test Time Tech\*\*  
Solids, Settleable < 0.1 mL/L SM20 2540F 9/24/2014 16:20 SW  
Total Suspended Solids 3 mg/L SM20 2540 D 9/26/2014 SW





# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-8538

## CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

### Results Comment:

Reviewed by: Laboratory Manager, ELAP Lab ID #10924

22-Oct-14

Key: < = less than; A=Analysis performed over holding time; C=degrees Celsius; B=BOD blank depletion was greater than 0.2 mg/L; D=Elevated reporting limit; Est=Estimated Value; H=Sample received over analysis holding time; J=Result estimated below quantitation limit; MCL=New York State Maximum Contaminant Level; MDL=Method Detection Limit; mg/kg=milligrams per kilogram dry weight; mg/L=milligrams per Liter; mL/L=milliliters per Liter; ND=Not Detected; NTU=Nephelometric Turbidity Units; PtCo=Platinum Cobalt Units; Q=Not all QC data met acceptance criteria; SI = Saturation Index; SU=Standard pH Units; TON=Threshold Odor Number at 44.5 degrees C; ug/L-micrograms per Liter; umho/cm=micromhos per centimeter; V=Value above quantitation range; \*ELAP/NELAC does not offer certification for this analyte; \*\*ELAP ID is listed for sub-contract laboratory

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Total number of pages in this report, including chain of custody, is 4

## SMITH LABORATORY

4 Scenic Drive

Hyde Park, NY 12538-1313

Phone: 845-229-6536

Fax: 845-229-6538

## CHAIN OF CUSTODY

 Turnaround Time: Standard ☒  
 RUSH ☐ (Rush surcharge applies)  
 \*\* Date report requested:

 Copy results to  
 Local Health Dept.  
 Yes ☐ No ☒
Login Review: ☒

Amt Due:

Amt Paid:

Pmt Method:

Receipt No:

Client Name: CITY OF KINGSTON

Client Phone No: 845-334-3968

Project/Facility Name: RONDOUT CREEK

Mailing Address: 420 BROADWAY

Client Email: aadin@kingston-ny.gov

Location:

KINGSTON, NY 12401

Copy Report To: RALPH SWENSON

PWS Fed ID No: NY-

## LAB USE ONLY

## CLIENT: COMPLETE THE SAMPLE INFORMATION IN THE SPACE PROVIDED BELOW

## LAB USE ONLY

Order ID No: 124763 Sample No:	Sample Identification & Sample Point	Matrix	(Check One)			Treatment Type & Residual	Date/Time Sampled	Analysis Requested	Container & Preservative	Iced Y/N	Sample Temp. Deg C	Pres. at Lab Y/N
			Grab	Comp # hrs	First Draw							
223118A	SITE #1	SW	X				1:00P	SS TSS	1-1LPLAS 1-1/2 L PLAS	Y	12.5/10.0	N
119	SITE #2	SW	X				1:12P	SS TSS	1-1LPLAS 1-1/2 L PLAS		11.2/16.7	
120	SITE #3	SW	X				1:17P	SS TSS	1-1LPLAS 1-1/2 L PLAS		9.6/12.7	
121	SITE #4	SW	X				1:24P	SS TSS	1-1LPLAS 1-1/2 L PLAS		11.1/16.3	
122	SITE #5	SW	X				1:30P	SS TSS	1-1LPLAS 1-1/2 L PLAS		13.1/16.7	
123	SITE #6	SW	X				1:22P	SS TSS	1-1LPLAS 1-1/2 L PLAS		11.2/17.8	
124	SITE #7	SW	X				2:05P	SS TSS	1-1LPLAS 1-1/2 L PLAS		16.4/16.4	
125	DUPLICATE SITE #1	SW	X				1:00P	SS TSS	1-1LPLAS 1-1/2 L PLAS	Y	10.9/16.4	

Sampled By: (Name) ALAN ADIN (Title) ENGINEERING TECH. I hereby affirm that the information above is true and complete to the best of my knowledge. I also affirm that I am responsible for payment, unless other payment arrangements are approved in advance by Smith Laboratory.

Sample Relinquished By: ALAN ADIN

Received By:

Date: Time:

Sample Relinquished By:

Received at Lab By: JRP

Date: 9/21/14 Time: 1500

Sample(s) received met the following requirements

Thermal Preservation: NA Yes No

Chemical Preservation: NA Yes No

Correct Bottle Type Yes No

Other

Comments:



Attach nt 1 - Sampling Event Summary Sheet

Initials: TS

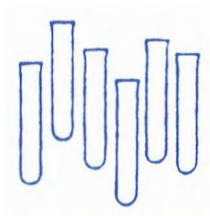
Date: OCTOBER 8, 2014 Page 1 of 1

Sampling Team: ALLEN WACHSALL JIM P. RALPH S.

Weather: CLEAR Temperature: 60°F

Direction of Flow: EAST / DOWNSTREAM TIDE

Sampling Location	Time	Field Parameter	Physical Observations	Comments
SITE #1: MID-ROADOUT CREEK APPROX. 250 YDS UPSTREAM OF WILBUR AVE. OUTFALL	LATITUDE: <u>41.706</u> LONGITUDE: <u>-77.004</u>	DO <u>7.9</u> temperature <u>18.6°C</u>	Grease <u>NONE</u> Floatables <u>LEAVES</u> Odors <u>NONE</u>	TIDE: <u>IN</u> <u>7:45 AM</u> APPROX. 15 YDS WESTERLY OF FEENEY DRY DOCK AT PROPERTY BOUNDARY BETWEEN FEENEY AND RECYCLING BUSINESS
SITE #2: MID-ROADOUT CREEK - UPSTREAM OF BLOCK PARK	LAT: <u>41.912</u> LONG: <u>-73.992</u>	DO <u>8.0</u> temperature <u>18.2°C</u>	Grease <u>NONE</u> Floatables <u>NONE</u> Odors <u>NONE</u>	TIDE: <u>IN</u> <u>9:56 AM</u> 50 YDS SOUTHERLY OF ISLAND DOCK CAUSEWAY CULVERTS
SITE #3: MID-ROADOUT CREEK APPROX. 150 YDS UPSTREAM OF OLD BRIDGE	LAT: <u>41.914</u> LONG: <u>-73.985</u>	DO <u>8.1</u> temperature <u>18.3°C</u>	Grease <u>NONE</u> Floatables <u>NONE</u> Odors <u>NONE</u>	TIDE: <u>IN</u> <u>10:02 AM</u> 25 YDS SOUTHERLY OF OLD STEEL BOILER PROTRUDING FROM WATER NEAR ISLAND DOCK BULKHEAD
SITE #6: MID-ROADOUT CREEK UNDER NEW BRIDGE	LAT: <u>41.918</u> LONG: <u>-73.981</u>	DO <u>8.4</u> temperature <u>18.4°C</u>	Grease <u>NONE</u> Floatables <u>NONE</u> Odors <u>NONE</u>	TIDE: <u>IN</u> <u>10:07 AM</u> 50 YDS SOUTHERLY OF CLEARWATER MAINTENANCE SHED, DOUBLE SLIDE DOORS
SITE #4: MID-ROADOUT CREEK APPROX. 200 YDS DOWNSTREAM OF NEW BRIDGE	LAT: <u>41.919</u> LONG: <u>-73.979</u>	DO <u>8.3</u> temperature <u>18.6°C</u>	Grease <u>NONE</u> Floatables <u>NONE</u> Odors <u>NONE</u>	TIDE: <u>IN</u> <u>10:10 AM</u> 50 YDS SOUTHERLY OF STEELHOUSE RESTAURANT COVERED PATIO
SITE #5: MID-ROADOUT CREEK UPSTREAM OF BLOCK PARK	LAT: <u>41.922</u> LONG: <u>-73.968</u>	DO <u>8.3</u> temperature <u>18.5°C</u>	Grease <u>NONE</u> Floatables <u>NONE</u> Odors <u>NONE</u>	TIDE: <u>IN</u> <u>10:18 AM</u> 50 YDS SOUTHERLY OF GAS LINE CROSSING WARNING SIGN
SITE #7: MID-ROADOUT CREEK APPROX. 3/4 MILE UPSTREAM OF EDDYVILLE DAM AT NY&DEL BOAT LAUNCH	LAT: LONG:	DO <u>6.9</u> temperature <u>19.3°C</u>	Grease <u>NONE</u> Floatables <u>NONE</u> Odors <u>NONE</u>	FLOW: ALWAYS EASTERLY (DOWNSTREAM) - LOCATION NOT TIDAL. STRAIGHT OUT FROM WESTERLY END BOAT LAUNCH <u>10:50 AM</u>
DUPLICATE (SITE #4)	LAT: LONG:	DO temperature	Grease Floatables Odors	SITE #4 <u>10:10 AM</u>



# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek  
**Sample Type:** Surface Water  
**Order comment:**  
**Order ID:** 125179

---

**Sample Number:** 224112  
**Sample Location:** Site #1, grab  
**Sample Comment:** FC rec'd at 8.3 deg C.  
**Date/Time sample collected:** 10/8/2014 9:45  
**Date/Time sample received:** 10/8/2014 14:15  
**Date/Time sample analyzed:** 10/8/2014 15:20

**Collected By:** RS  
**Received by:** Amy Jo  
**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	100	CFU/100mL	SM 18 9222D

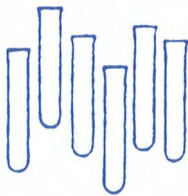
\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

14-Oct-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek  
**Sample Type:** Surface Water  
**Order comment:**  
**Order ID:** 125179

---

**Sample Number:** 224113  
**Sample Location:** Site #2. grab  
**Sample Comment:** FC rec'd at 9.4 deg C.  
**Date/Time sample collected:** 10/8/2014 9:56  
**Date/Time sample received:** 10/8/2014 14:15  
**Date/Time sample analyzed:** 10/8/2014 15:20

**Collected By:** RS  
**Received by:** Amy Jo  
**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	190	CFU/100mL	SM 18 9222D

---

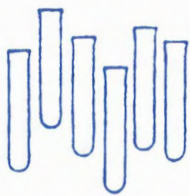
\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by Lab Manager, ELAP Lab ID #10924

14-Oct-14

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4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek  
**Sample Type:** Surface Water  
**Order comment:**  
**Order ID:** 125179

---

**Sample Number:** 224114  
**Sample Location:** Site #3, grab  
**Sample Comment:** FC rec'd at 8.8 deg C  
**Date/Time sample collected:** 10/8/2014 10:02  
**Date/Time sample received:** 10/8/2014 14:15  
**Date/Time sample analyzed:** 10/8/2014 15:20

**Collected By:** RS  
**Received by:** Amy Jo  
**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	80	CFU/100mL	SM 18 9222D

---

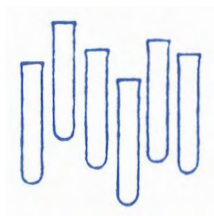
\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

**Reviewed by:** Lab Manager, ELAP Lab ID #10924

14-Oct-14

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ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek  
**Sample Type:** Surface Water  
**Order comment:**  
**Order ID:** 125179

---

**Sample Number:** 224115  
**Sample Location:** Site #4, grab  
**Sample Comment:** FC rec'd at 12.2 deg C  
**Date/Time sample collected:** 10/8/2014 10:10  
**Date/Time sample received:** 10/8/2014 14:15  
**Date/Time sample analyzed:** 10/8/2014 15:20

**Collected By:** RS  
**Received by:** Amy Jo  
**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	720	CFU/100mL	SM 18 9222D

\*Bacteriological test results are expressed as Colony Forming Units.

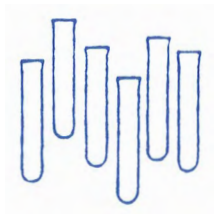
**Results Comment:**

  
Reviewed by: Lab Manager, ELAP Lab ID #10924

14-Oct-14

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## CERTIFICATE OF ANALYSIS

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420 Broadway  
Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek  
**Sample Type:** Surface Water  
**Order comment:**  
**Order ID:** 125179

---

**Sample Number:** 224116  
**Sample Location:** Site #5, grab  
**Sample Comment:** FC rec'd at 14.4 deg C  
**Date/Time sample collected:** 10/8/2014 10:18  
**Date/Time sample received:** 10/8/2014 14:15  
**Date/Time sample analyzed:** 10/8/2014 15:20

**Collected By:** RS  
**Received by:** Amy Jo  
**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	640	CFU/100mL	SM 18 9222D

---

\*Bacteriological test results are expressed as Colony Forming Units.

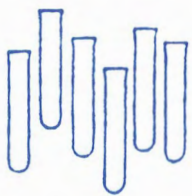
**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

14-Oct-14

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4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek  
**Sample Type:** Surface Water  
**Order comment:**  
**Order ID:** 125179

---

**Sample Number:** 224117  
**Sample Location:** Site #6, grab  
**Sample Comment:** FC rec'd at 12.1 deg C  
**Date/Time sample collected:** 10/8/2014 10:07  
**Date/Time sample received:** 10/8/2014 14:15  
**Date/Time sample analyzed:** 10/8/2014 15:20


**Collected By:** RS  
**Received by:** Amy Jo  
**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	200	CFU/100mL	SM 18 9222D

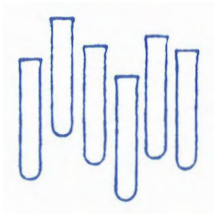
\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

  
Reviewed by: Lab Manager, ELAP Lab ID #10924

14-Oct-14

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ENVIRONMENTAL TESTING  
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HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

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Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek  
**Sample Type:** Surface Water  
**Order comment:**  
**Order ID:** 125179

---

**Sample Number:** 224118  
**Sample Location:** Site #7, grab  
**Sample Comment:** FC rec'd at 8.0 deg C  
**Date/Time sample collected:** 10/8/2014 10:50  
**Date/Time sample received:** 10/8/2014 14:15  
**Date/Time sample analyzed:** 10/8/2014 15:20

**Collected By:** RS  
**Received by:** Amy Jo  
**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	10	CFU/100mL	SM 18 9222D

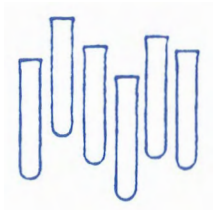
\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

14-Oct-14

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ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
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## CERTIFICATE OF ANALYSIS

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Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek  
**Sample Type:** Surface Water  
**Order comment:**  
**Order ID:** 125179

---

**Sample Number:** 224119  
**Sample Location:** Duplicate, Site #4, grab  
**Sample Comment:** FC rec'd at 13.4 deg C  
**Date/Time sample collected:** 10/8/2014 10:10  
**Date/Time sample received:** 10/8/2014 14:15  
**Date/Time sample analyzed:** 10/8/2014 15:20

**Collected By:** RS  
**Received by:** Amy Jo  
**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	1,000	CFU/100mL	SM 18 9222D

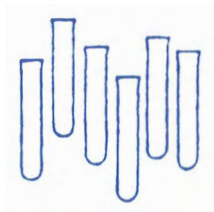
\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

14-Oct-14

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ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
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## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

**Client Project Name:** Rondout Creek  
**Sample Type:** Water  
**Order comment:**  
**Order ID:** 125179

---

**Sample Number:** 224128  
**Sample Location:** Blank-QC  
**Sample Comment:** 100 mL buffered rinse water used  
**Date/Time sample collected:** 10/8/2014 15:20  
**Date/Time sample received:** 10/8/2014 15:20  
**Date/Time sample analyzed:** 10/8/2014 15:20

**Collected By:**  
**Received by:** Amy Jo  
**Tech:** SS

---

Parameter	Test Result*	Units	Test Method
Fecal Coliform	< 1	CFU/100mL	SM 18 9222D

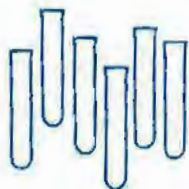
\*Bacteriological test results are expressed as Colony Forming Units.

**Results Comment:**

Reviewed by: Lab Manager, ELAP Lab ID #10924

14-Oct-14

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

Sample Type: Surface Water  
Client Project Name: Rondout Creek  
Order comment:

Order ID: 125179 Sample Number: 224112  
Sample Location: Site #1, grab  
Date/Time sample collected: 10/8/2014 9:45  
Date/Time samples received: 10/8/2014 14:15  
Sample Comment: FC rec'd at 8.3 deg C.

Sample Collected By: RS  
Sample Received by: Amy Jo

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Solids, Settleable	< 0.1	mL/L	SM20 2540F	10/8/2014	15:15	SW
Total Suspended Solids	2	mg/L	SM20 2540 D	10/13/2014		LM

Order ID: 125179 Sample Number: 224113  
Sample Location: Site #2, grab  
Date/Time sample collected: 10/8/2014 9:56  
Date/Time samples received: 10/8/2014 14:15  
Sample Comment: FC rec'd at 9.4 deg C.

Sample Collected By: RS  
Sample Received by: Amy Jo

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Solids, Settleable	< 0.1	mL/L	SM20 2540F	10/8/2014	15:15	SW
Total Suspended Solids	2	mg/L	SM20 2540 D	10/13/2014		LM

Order ID: 125179 Sample Number: 224114  
Sample Location: Site #3, grab  
Date/Time sample collected: 10/8/2014 10:02  
Date/Time samples received: 10/8/2014 14:15  
Sample Comment: FC rec'd at 8.8 deg C.

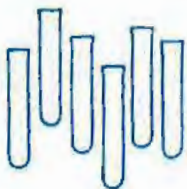
Sample Collected By: RS  
Sample Received by: Amy Jo

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Solids, Settleable	< 0.1	mL/L	SM20 2540F	10/8/2014	15:15	SW
Total Suspended Solids	5	mg/L	SM20 2540 D	10/13/2014		LM

Order ID: 125179 Sample Number: 224115  
Sample Location: Site #4, grab  
Date/Time sample collected: 10/8/2014 10:10  
Date/Time samples received: 10/8/2014 14:15  
Sample Comment: FC rec'd at 12.2 deg C.

Sample Collected By: RS  
Sample Received by: Amy Jo

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Solids, Settleable	< 0.1	mL/L	SM20 2540F	10/8/2014	15:15	SW
Total Suspended Solids	6	mg/L	SM20 2540 D	10/13/2014		LM



# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 228-8536

## CERTIFICATE OF ANALYSIS

Client: City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

---

Order ID: 125179      Sample Number: 224116  
Sample Location: Site #5, grab  
Date/Time sample collected: 10/8/2014 10:18      Sample Collected By: RS  
Date/Time samples received: 10/8/2014 14:15      Sample Received by: Amy Jo  
Sample Comment: FC rec'd at 14.4 deg C

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Solids, Settleable	< 0.1	mL/L	SM20 2540F	10/8/2014	15:15	SW
Total Suspended Solids	18	mg/L	SM20 2540 D	10/13/2014		LM

---

Order ID: 125179      Sample Number: 224117  
Sample Location: Site #6, grab  
Date/Time sample collected: 10/8/2014 10:07      Sample Collected By: RS  
Date/Time samples received: 10/8/2014 14:15      Sample Received by: Amy Jo  
Sample Comment: FC rec'd at 12.1 deg C

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Solids, Settleable	< 0.1	mL/L	SM20 2540F	10/8/2014	15:15	SW
Total Suspended Solids	5	mg/L	SM20 2540 D	10/13/2014		LM

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Order ID: 125179      Sample Number: 224118  
Sample Location: Site #7, grab  
Date/Time sample collected: 10/8/2014 10:50      Sample Collected By: RS  
Date/Time samples received: 10/8/2014 14:15      Sample Received by: Amy Jo  
Sample Comment: FC rec'd at 8.0 deg C

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Solids, Settleable	< 0.1	mL/L	SM20 2540F	10/8/2014	15:15	SW
Total Suspended Solids	2	mg/L	SM20 2540 D	10/13/2014		LM

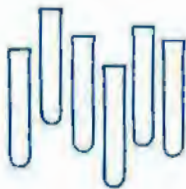
---

Order ID: 125179      Sample Number: 224119  
Sample Location: Duplicate, Site #4, grab  
Date/Time sample collected: 10/8/2014 10:10      Sample Collected By: RS  
Date/Time samples received: 10/8/2014 14:15      Sample Received by: Amy Jo  
Sample Comment: FC rec'd at 13.4 deg C

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Solids, Settleable	< 0.1	mL/L	SM20 2540F	10/8/2014	15:15	SW
Total Suspended Solids	5	mg/L	SM20 2540 D	10/13/2014		LM

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# SMITH LABORATORY

ENVIRONMENTAL TESTING  
4 SCENIC DRIVE & RT. 9  
HYDE PARK, NEW YORK 12538  
(845) 229-6536

## CERTIFICATE OF ANALYSIS

**Client:** City of Kingston Engineers Office  
Attn: Alan Adin  
420 Broadway  
Kingston

NY 12401

PO #

**Order ID:** 125179      **Sample Number:** 224128  
**Sample Location:** Blank-QC  
**Date/Time sample collected:** 10/8/2014 15:20      **Sample Collected By:**  
**Date/Time samples received:** 10/8/2014 15:20      **Sample Received by:** Amy Jo  
**Sample Comment:** 100 mL buffered rinse water used

Parameter:	Test Result	Units	Test Method	Test Date	Test Time	Tech**
Solids, Settleable	< 0.1	mL/L	SM20 2540F	10/8/2014	15:15	SW
Total Suspended Solids	< 1	mg/L	SM20 2540 D	10/13/2014		LM

**Results Comment:**

**Reviewed by:** Laboratory Manager, ELAP Lab ID #10924

28-Oct-14

Key: < = less than; A=Analysis performed over holding time; C=degrees Celsius; B=BOD blank depletion was greater than 0.2 mg/L; D=Elevated reporting limit; Est=Estimated Value; H=Sample received over analysis holding time; J=Result estimated below quantitation limit; MCL=New York State Maximum Contaminant Level; MDL=Method Detection Limit; mg/kg=milligrams per kilogram dry weight; mg/L=milligrams per Liter; mL/L=milliliters per Liter; ND=Not Detected; NTU=Nephelometric Turbidity Units; PtCo=Platinum Cobalt Units; Q=Not all QC data met acceptance criteria; SI = Saturation Index; SU=Standard pH Units; TON=Threshold Odor Number at 44.5 degrees C; ug/L-micrograms per Liter; umho/cm=micromhos per centimeter; V=Value above quantitation range; \*ELAP/NELAC does not offer certification for this analyte; \*\*ELAP ID is listed for sub-contract laboratory

*Smith Laboratory is approved as an Environmental Testing Laboratory in conformance with the National Environmental Laboratory Accreditation Conference (NELAC) Standards. This test report pertains only to the above items analyzed on this sample as received by the laboratory. Information supplied by the client is assumed to be correct.*

Total number of pages in this report, including chain of custody, is 4

SMITH LABORATORY  
4 Scenic Drive  
Hyde Park, NY 12538-1313  
Phone: 845-229-6536  
Fax: 845-229-6538

# CHAIN OF CUSTODY

Turnaround Time: Standard ☒  
RUSH ☐ (Rush surcharge applies)  
\*\* Date report requested: \_\_\_\_\_

Copy results to  
Local Health Dept.  
Yes ☐ No ☒

Login Review: AMM  
Amt Due: \_\_\_\_\_  
Amt Paid: \_\_\_\_\_  
Pmt Method: \_\_\_\_\_  
Receipt No: \_\_\_\_\_

Client Name: CITY OF KINGSTON

Client Phone No: 845-334-3968 Project/Facility Name: RONDOUT CREEK

Mailing Address: 420 BROADWAY

Client Email: aadin@kingston-ny.gov Location: \_\_\_\_\_

KINGSTON, NY 12401

Copy Report To: RALPH SWENSON PWS Fed ID No: NY-

## LAB USE ONLY

CLIENT: COMPLETE THE SAMPLE INFORMATION IN THE SPACE PROVIDED BELOW

## LAB USE ONLY

Order ID No: 125179 Sample No:	Sample Identification & Sample Point	Matrix	(Check One)			Treatment Type & Residual	Date/Time Sampled	Analysis Requested	Container & Preservative	Iced Y/N	Sample Temp, Deg C	Pres. at Lab Y/N
			Grab	Comp # hrs	First Draw							
224112AB	SITE #1	SW	X				10/8/14 9:45A	SS TSS	1-1LPLAS 1-1/2 L PLAS	Y	20/8.5	N
224113AB	SITE #2	SW	X				10/8/14 9:56A	SS TSS	1-1LPLAS 1-1/2 L PLAS		21/7.0	
224114AB	SITE #3	SW	X				10/8/14 10:02A	SS TSS	1-1LPLAS 1-1/2 L PLAS		88/8.0	
224115AB	SITE #4	SW	X				10/8/14 10:10A	SS TSS	1-1LPLAS 1-1/2 L PLAS		49/12.5	
224116AB	SITE #5	SW	X				10/8/14 10:13A	SS TSS	1-1LPLAS 1-1/2 L PLAS		10.9/12.5	
224117AB	SITE #6	SW	X				10/8/14 10:10A	SS TSS	1-1LPLAS 1-1/2 L PLAS		9.0/10.7	
224118AB	SITE #7	SW	X				10/8/14 10:50A	SS TSS	1-1LPLAS 1-1/2 L PLAS		13.3/9.4	
224119AB	DUPLICATE	SW	X				10/8/14 10:10A	SS TSS	1-1LPLAS 1-1/2 L PLAS		14.9/12.5	

Sampled By: (Name) Ralph Swenson (Title) Engineer I hereby affirm that the information above is true and complete to the best of my knowledge. I also affirm that I am responsible for payment, unless other payment arrangements are approved in advance by Smith Laboratory.

Sample Relinquished By: [Signature]

Received By: [Signature]

Date: 10/8/14 Time: \_\_\_\_\_

Sample Relinquished By: [Signature]

Received at Lab By: [Signature]

Date: 10/8/14 Time: 1415

Sample(s) received met the following requirements

Thermal Preservation: NA ☒ Yes ☐ No

Chemical Preservation: NA ☒ Yes ☐ No

Correct Bottle Type ☒ Yes ☐ No

Other \_\_\_\_\_

Comments: \_\_\_\_\_